BIOGEOCHEMISTRY PROJECT:

SNOW CORES 1988-1989

PLASTIC LAKE, HARP LAKE,

HAWKEYE LAKE

DECEMBER 1989

Environment Ontario

Jim Bradley
Minister

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SNOW CORES 1988-1989

PLASTIC LAKE, HARP LAKE, HAWKEYE LAKE

(Data Report 89/1)

Report prepared by:
J.G. Findeis, B.D. LaZerte and L.D. Scott

WATER RESOURCES BRANCH
Dorset, Ontario

DECEMBER 1989

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PREFACE

The Data Report series is intended as a readily available source of basic data collected for lakes and watersheds in the Muskoka-Haliburton area of Ontario. These data were collected as part of the Acid Precipitation in Ontario study.

The Acid Precipitation in Ontario Study (1979 - present) was initiated, in part, to investigate the effects of the deposition of strong acids on aquatic and terrestrial ecosystems in Ontario. The primary findings of these studies have been and will continue to be published as reviewed papers and technical reports.

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ABSTRACT

Snow was collected and analysed as part of the Biogeochemistry program to determine the chemical and hydrological inputs to groundwater flow in three watersheds. This data report summarizes 1988 and 1989 chemistry data as well as depth and water equivalence of the snow pack. Meteorological data (temperature and precipitation) is also presented for the three watersheds.

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METHODS

Snow sampling

Snow was collected at each of six sites in the Plastic 1 (Fig. 1) and Harp 1 (Fig. 2) watersheds and at five sites in the Hawkeye Lake (Fig. 3) (Thunder Bay District) watershed. Sites were located adjacent to groundwater collection sites with inclinations similar to these sites.

To determine water equivalence of the snowpack, three samples were taken from a previously undisturbed section of each site. A Utah metal snow corer (7 cm. I.D.) was pushed through the snowpack to the ground. At the Hawkeye Lake sites the snow depth was recorded and the snow cores were placed into plastic bags, returned to the laboratory and weighed on a Mettler 16 kg. balance. At the Dorset sites (Harp and Plastic) snow depth was recorded and the samples weighed at the site using the "red scale" on the Utah spring scale. Weight in grams was calculated using the formula: (grams = 654.3 + 88.23 * U) where U= Red scale on the Utah scale.(Fig. 4)

Snow was collected for chemical analysis from each site using a clean plexiglass coring tube with an inside diameter of 10.16 cm. A sufficient number of snow cores were collected to provide approximately two litres of water for chemical analysis. The number of cores collected depended on the depth of the snow at the sampling site. Samples were put into clean plastic bags, melted, then poured into bottles for submission to the chemistry lab.

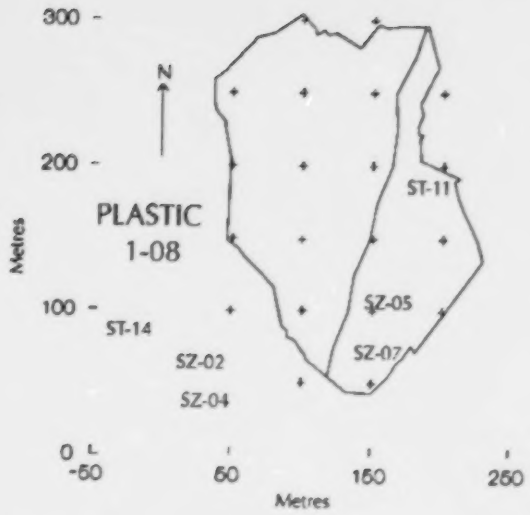


Figure 1

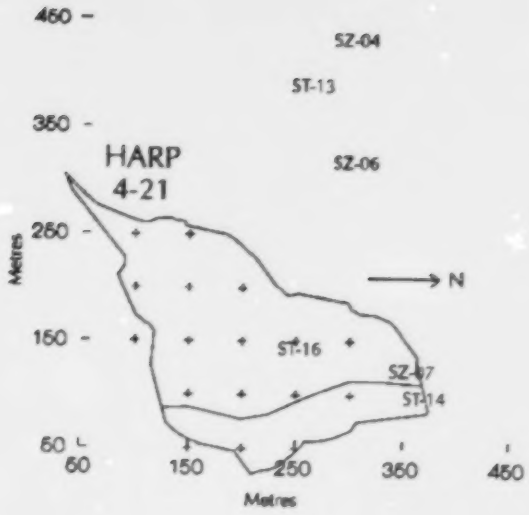


Figure 2

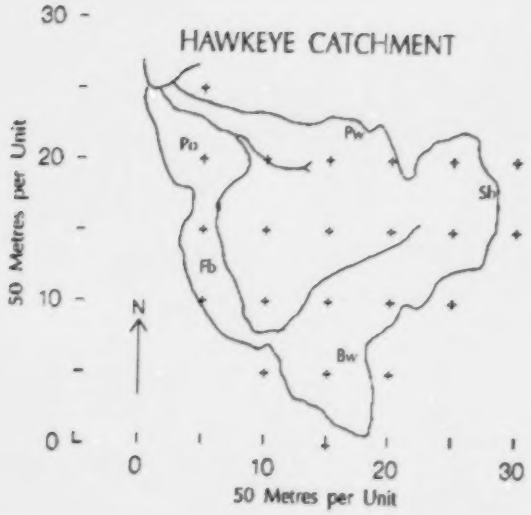


Figure 3

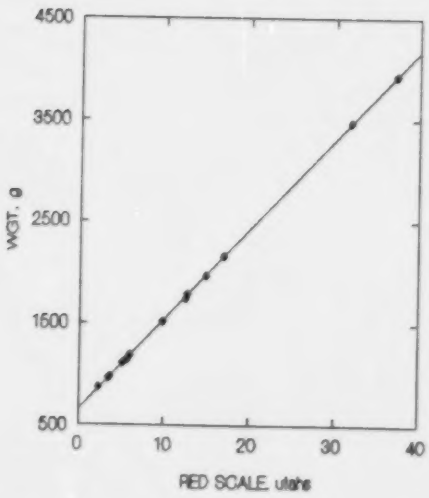


Figure 4

Meteorological data

Daily precipitation and temperature data was collected at meteorological stations located within one kilometre of the collection sites at Hawkeye Lake and Plastic Lake. The Harp Lake meteorological site is located approximately one and a half kilometres from the collection sites. A Belfort model 5915 Rainfall Transmitter connected to a Campbell Scientific model 21X Micrologger was used to record precipitation. Daily precipitation values (water equivalence during snowfall events) were calculated from the hourly readings recorded by the data logger. A Campbell Scientific model 207-C temperature probe, also connected to the 21X Micrologger was used to determine maximum, minimum and mean daily temperatures from hourly readings. Precipitation was considered to be in the form of snow if the mean daily temperature was less than or equal to one degree Centigrade.

The Belfort gauge located at Plastic Lake was not in operation from Feb 11 1988 to May 16 1988. Since daily precipitation values were not available, values were estimated using a regression model with data collected at the Paint and Heney lakes meteorological stations.

Daily temperature data was not available from the Harp lake meteorological station for several days in 1988 (Jan 21-23, Feb 7-11, Feb 18, Mar 1, Mar 2, Mar 6 and Apr 4). This data was obtained from the Heney lake site as this was the site closest to the Harp lake site. Hourly data from the Hawkeye Lake meteorological station was not available from February 15, 1988 to April 13, 1988. Instead, data from daily maximum/minimum readings was used to compute averages. This data was collected at the Hawkeye Lake meteorological site during week days (Monday to Friday) and at the Thunder Bay Airport on Saturdays and Sundays. Mean daily temperatures during this time period are calculated from a single daily maximum and minimum temperature reading, rather than the hourly readings from the data logger.

Snow tables

Tables 1 through 17 show snow depths and water equivalence of the snow collected at each of the seventeen sites. Three cores were taken at each sampling site during each visit. Mean values and standard deviation are shown for each collection. A visual estimate of snow cover was made during each visit. If snow cover was less than 100% snow depth and water equivalence values were adjusted by multiplying by the percent coverage. Locations of the sampling sites can be found on figures 1 to 3.

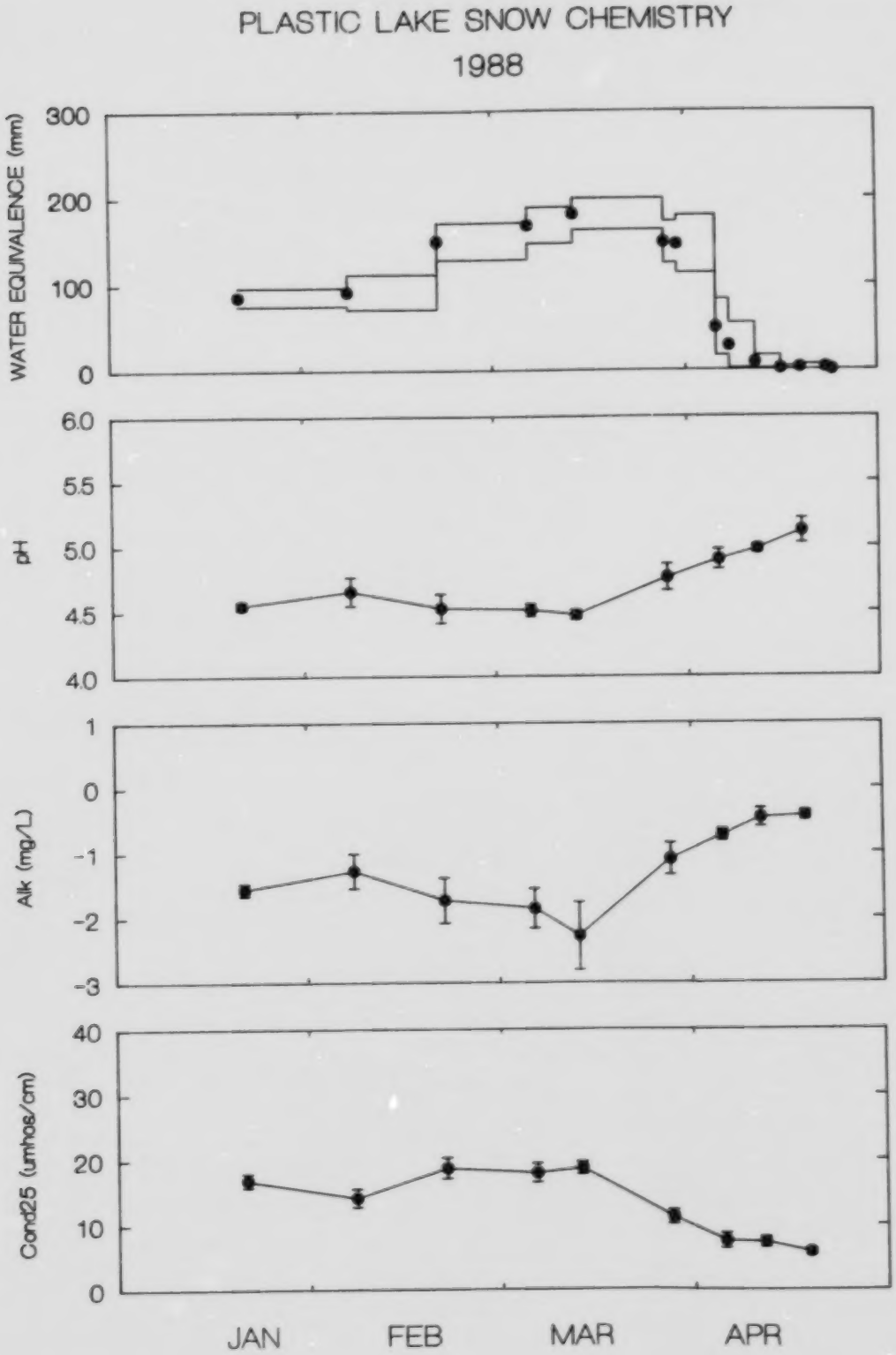
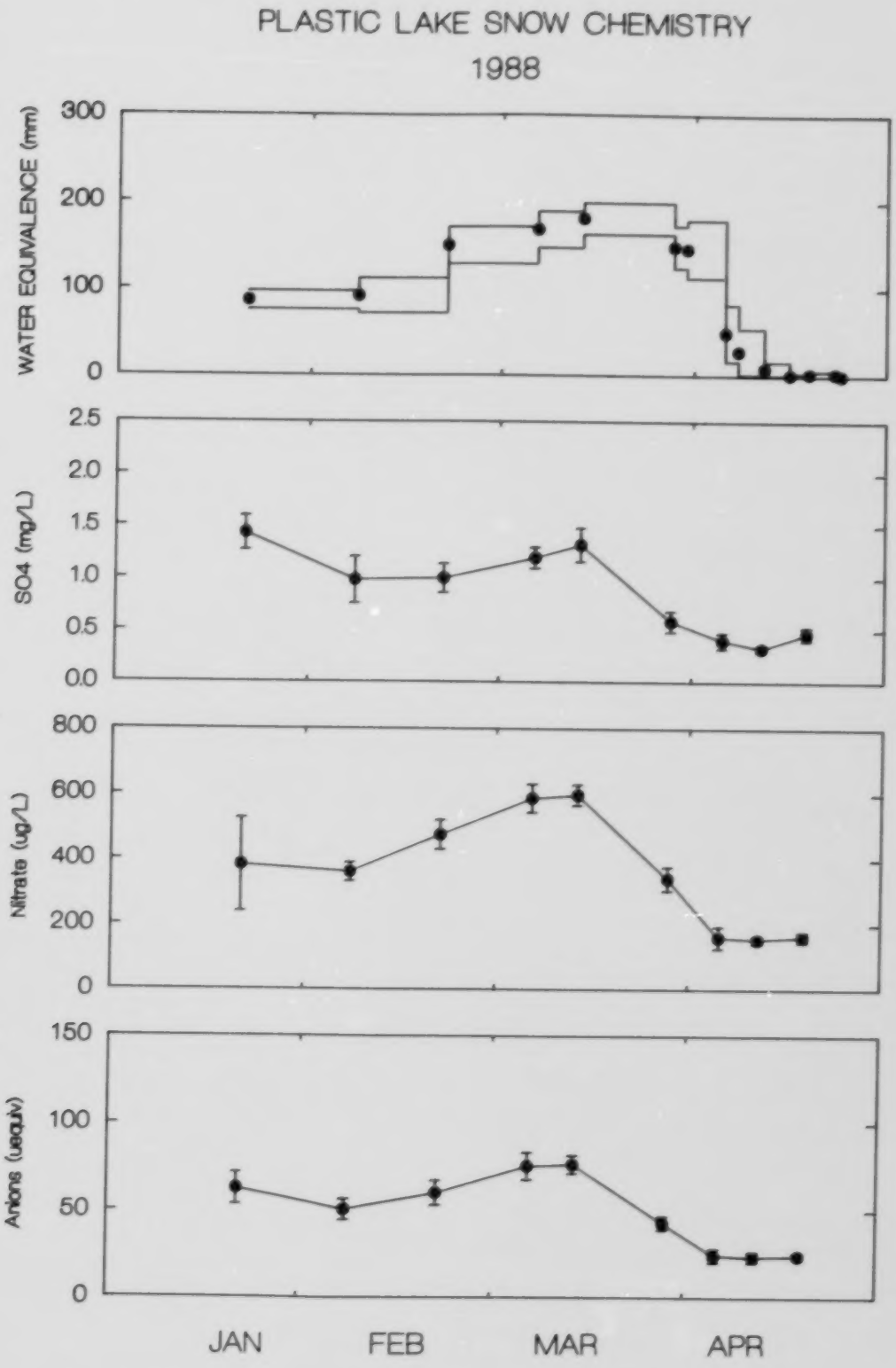

PLASTIC LAKE SNOW CHEMISTRY
1988
WATER EQUIVALENCE (mm)
300
200
100
0
pH
6.0
5.5
5.0
4.5
4.0
Alk (mg/L)
1
0
-1
-2
-3
Cond25 (umhos/cm)
40
30
20
10
0
JAN
FEB
MAR
APR

Figure 3



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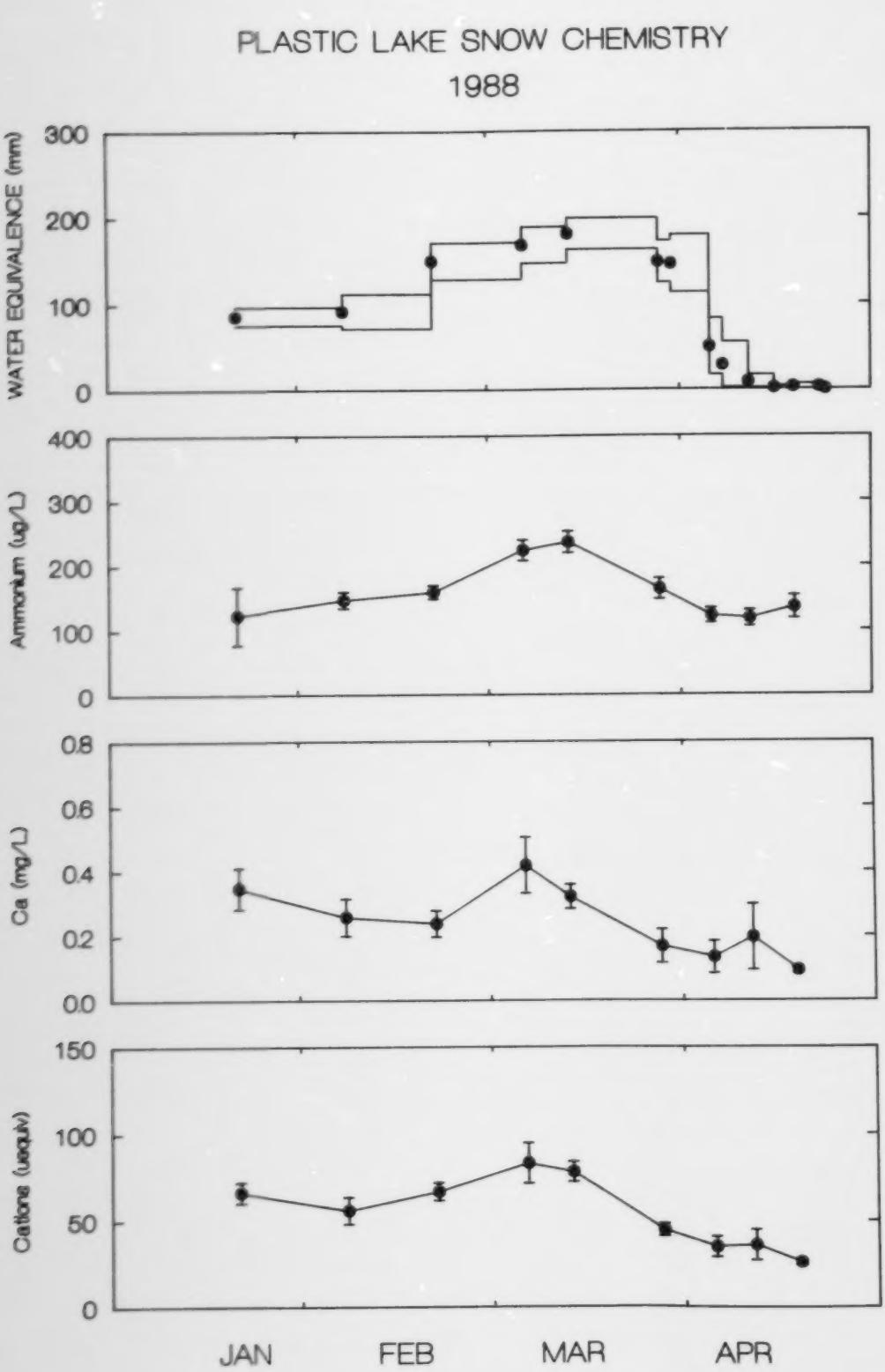

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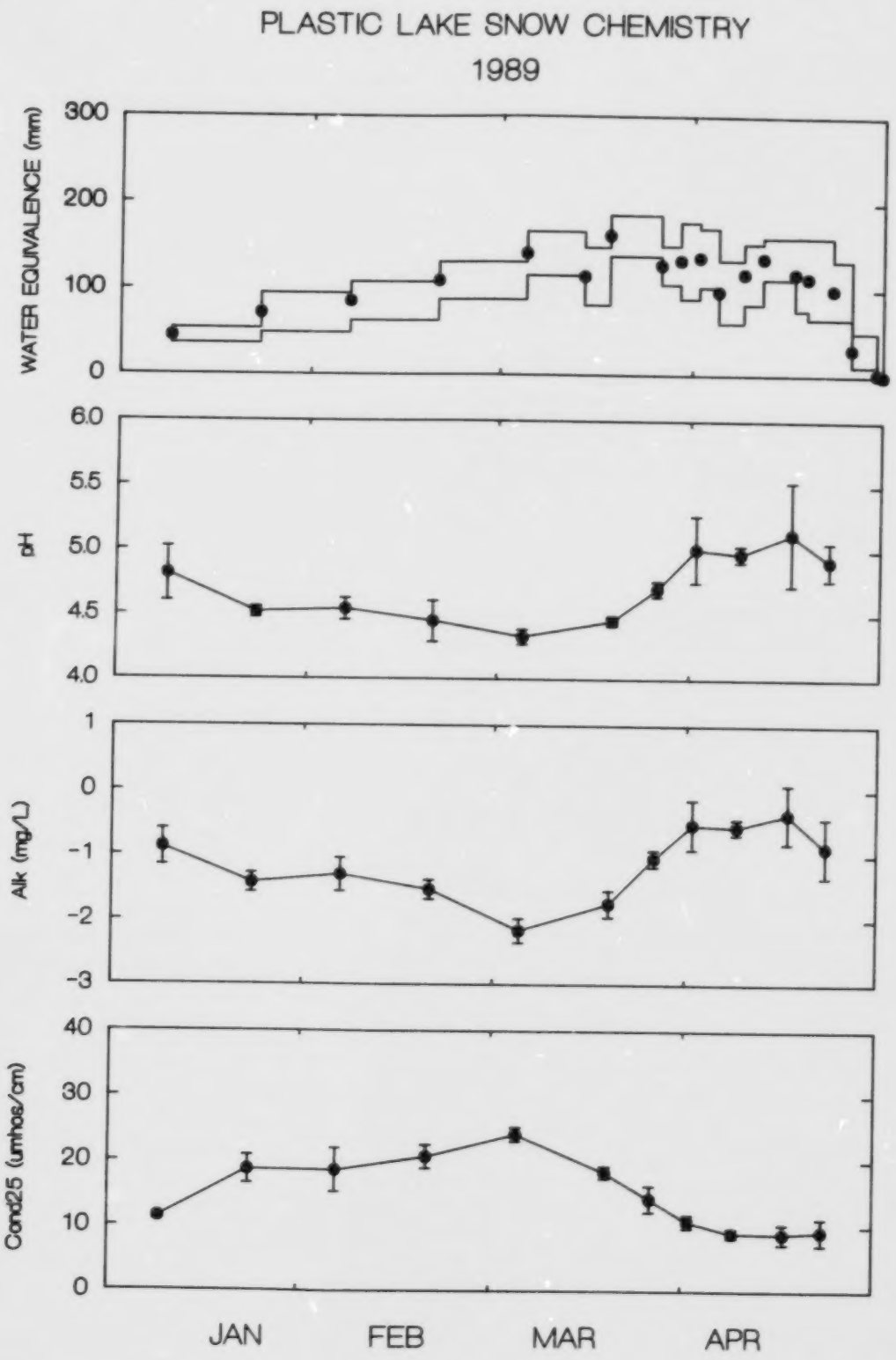

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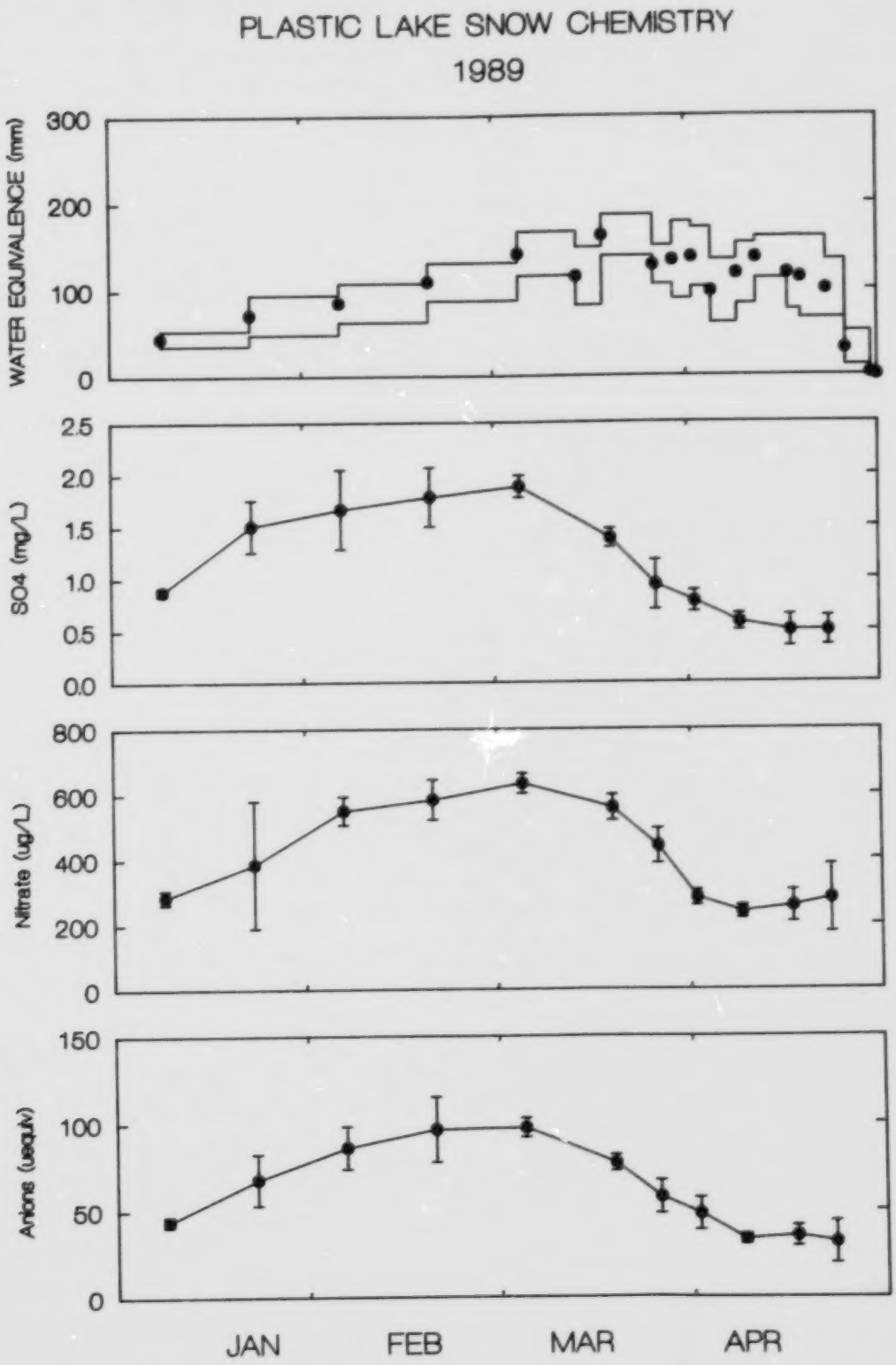

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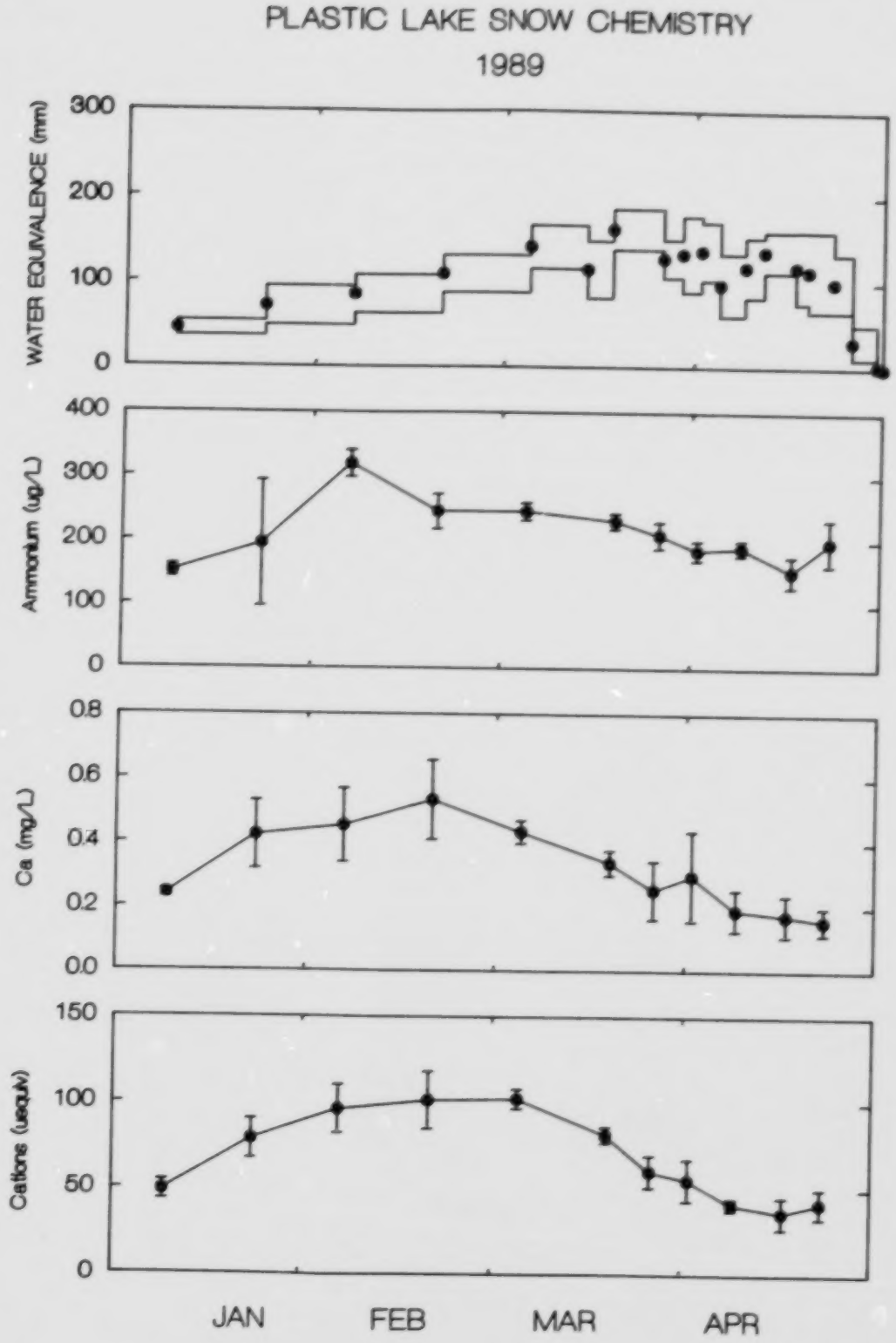

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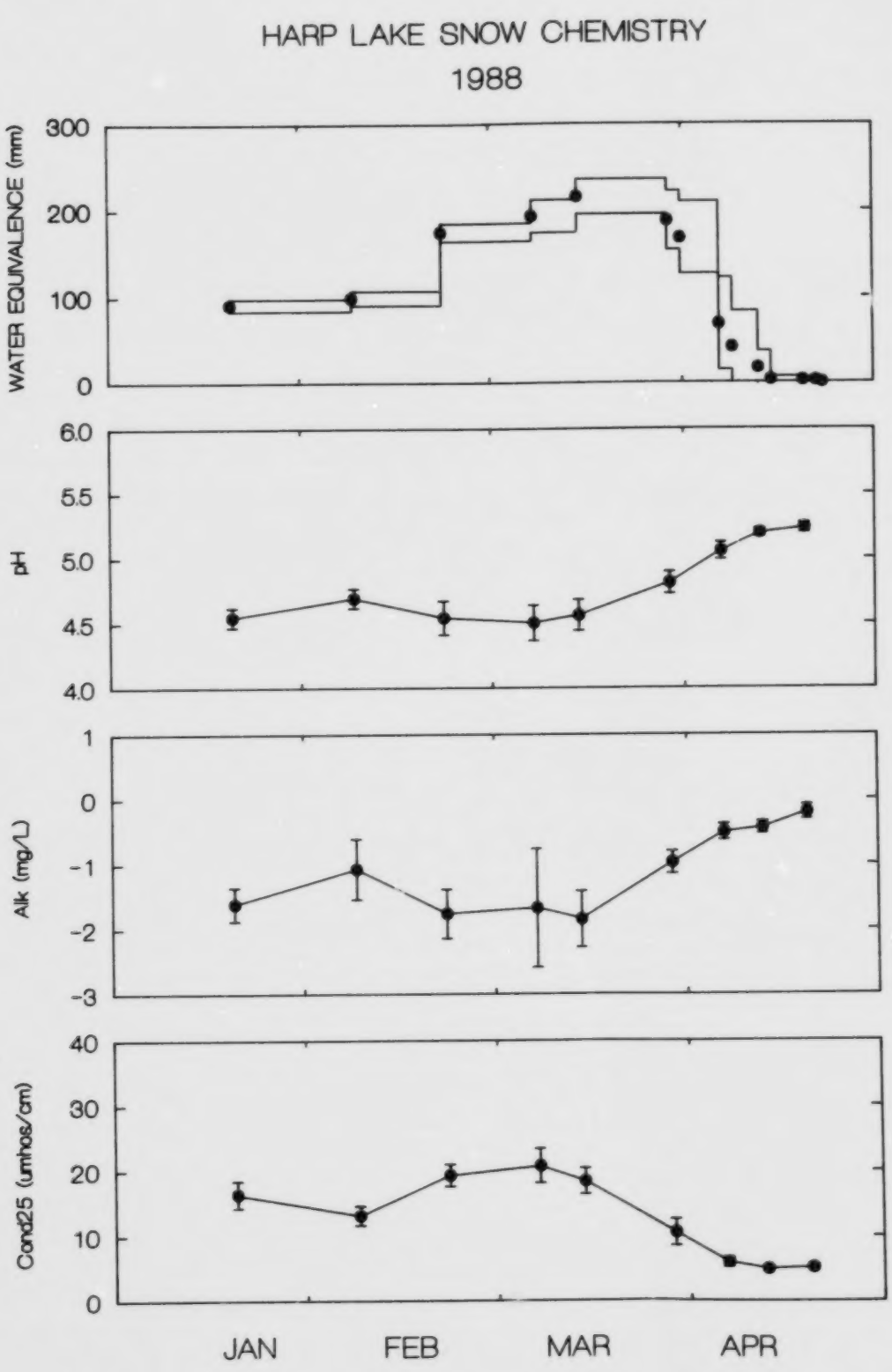
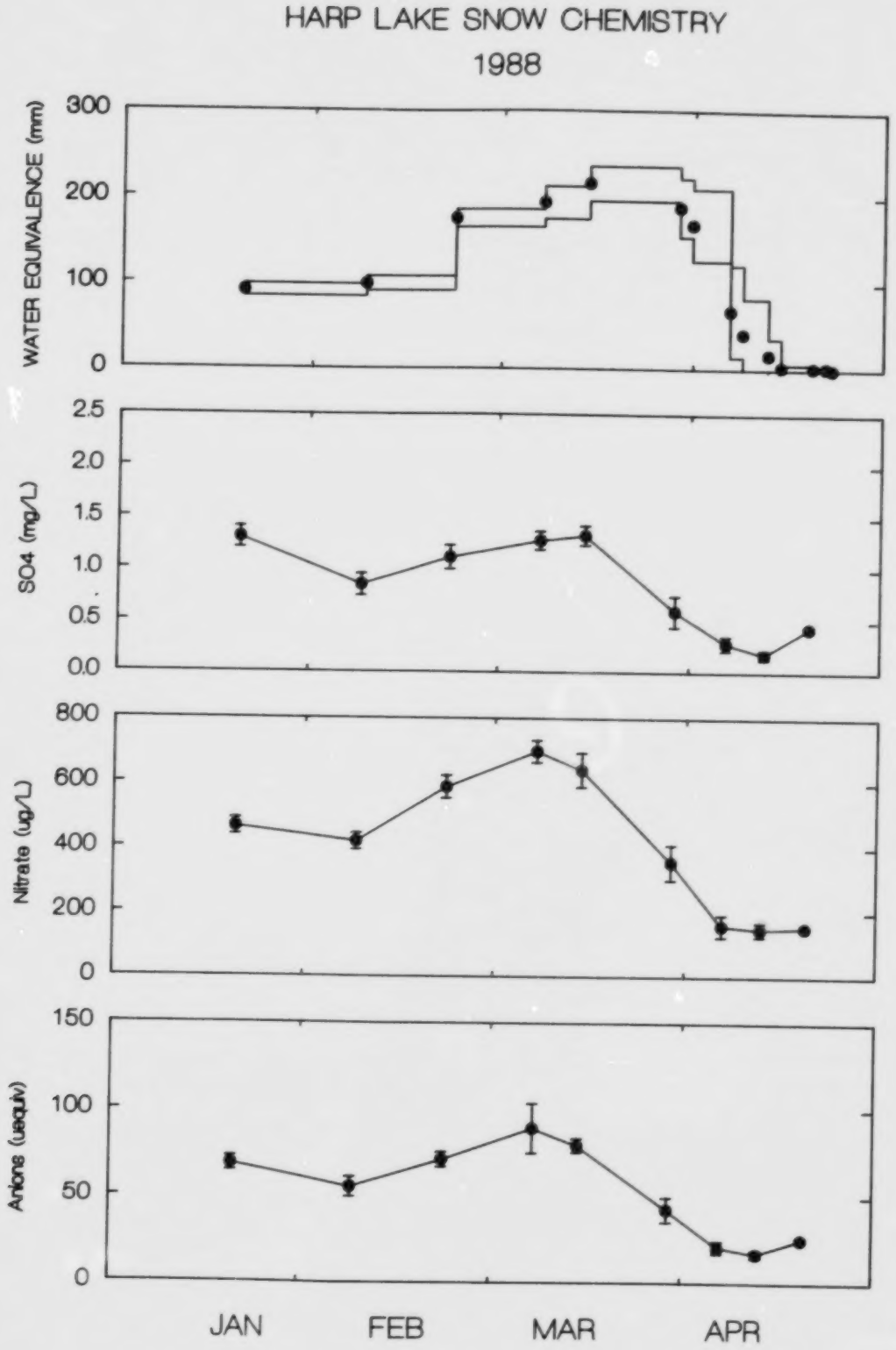

HARP LAKE SNOW CHEMISTRY
1988
WATER EQUIVALENCE (mm)
300
200
100
0
pH
6.0
5.5
5.0
4.5
4.0
Alk (mg/L)
1
0
-1
-2
-3
Cond25 (umhos/cm)
40
30
20
10
0
JAN
FEB
MAR
APR

Figure 6



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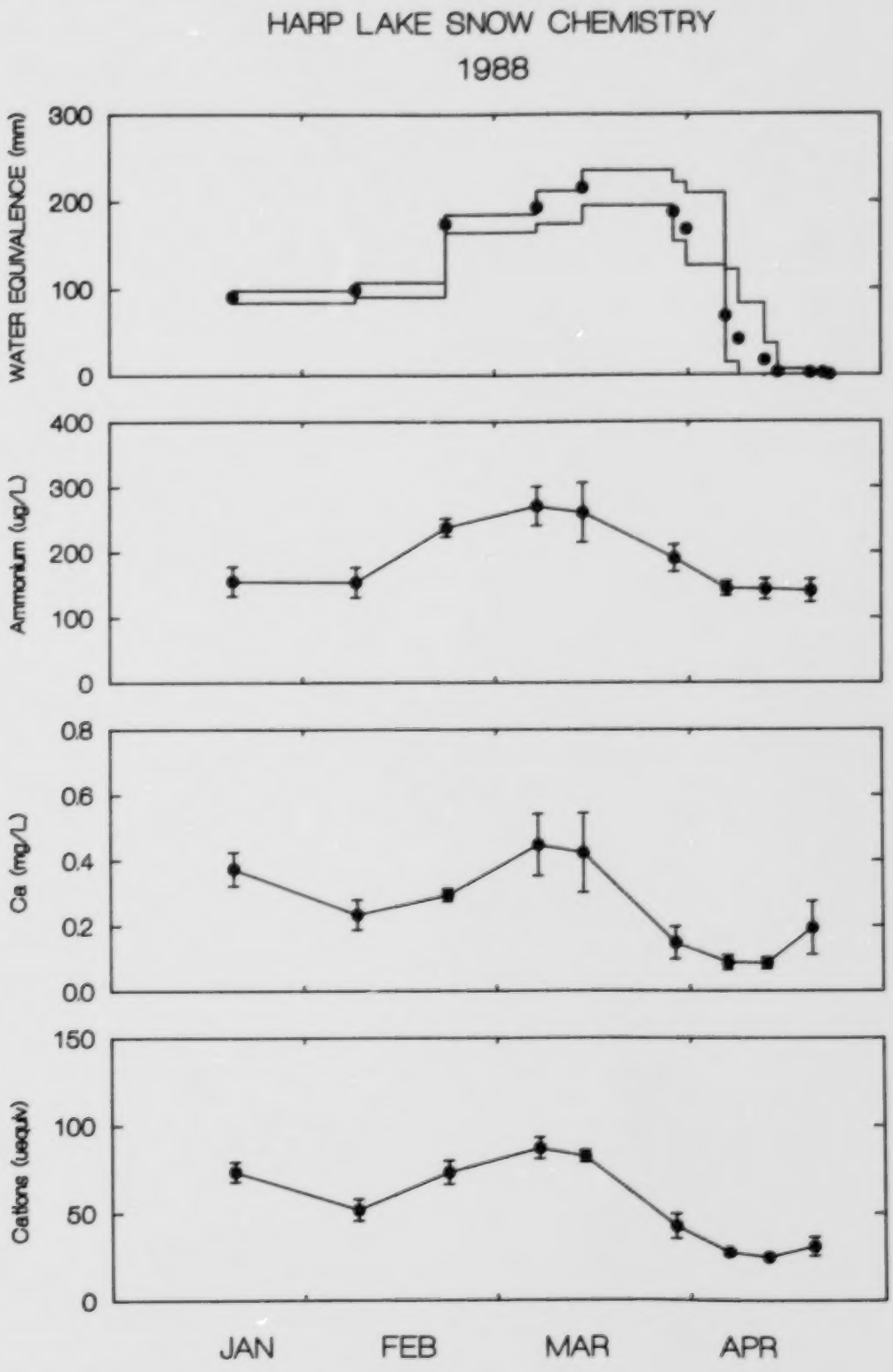

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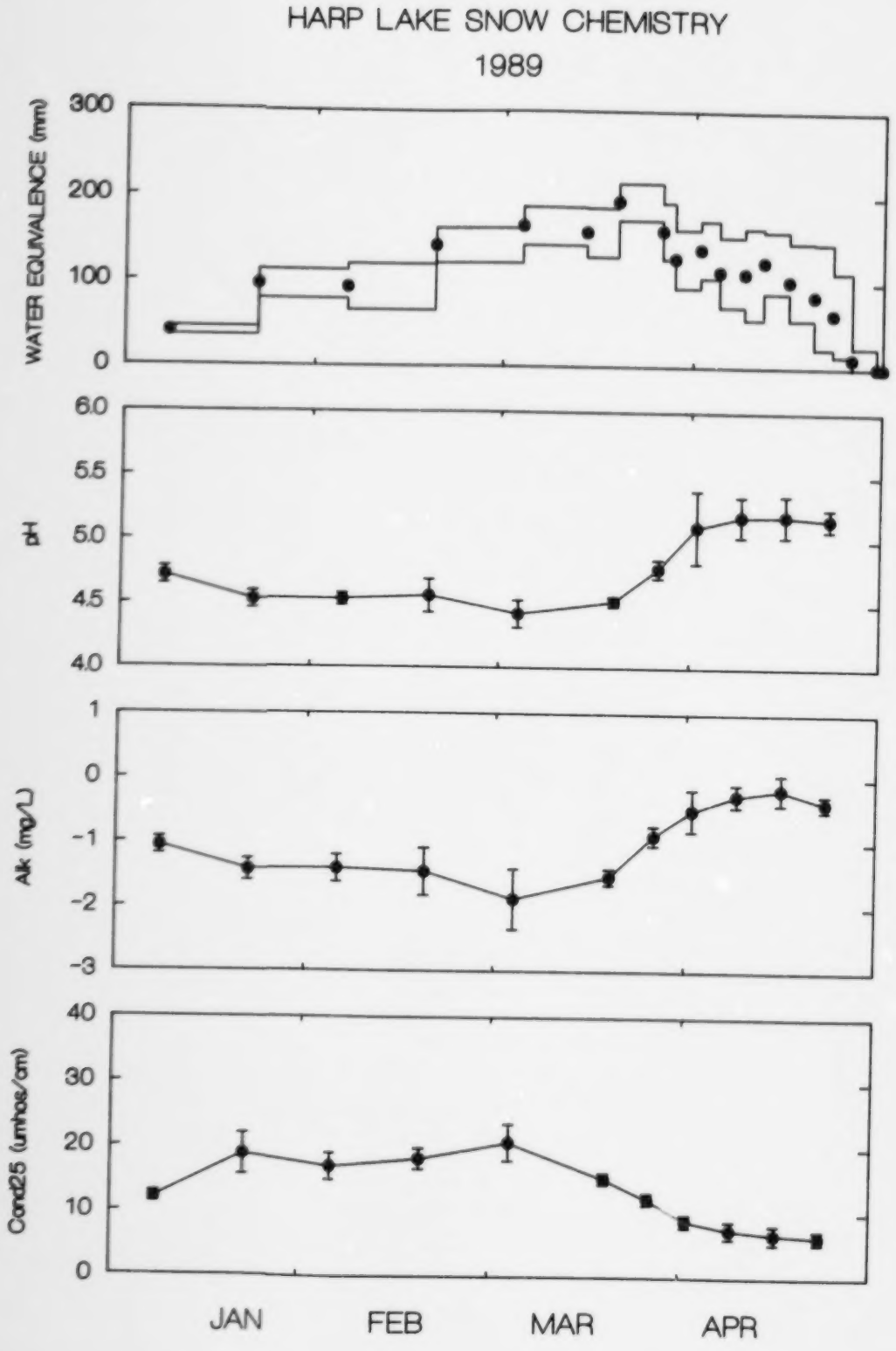

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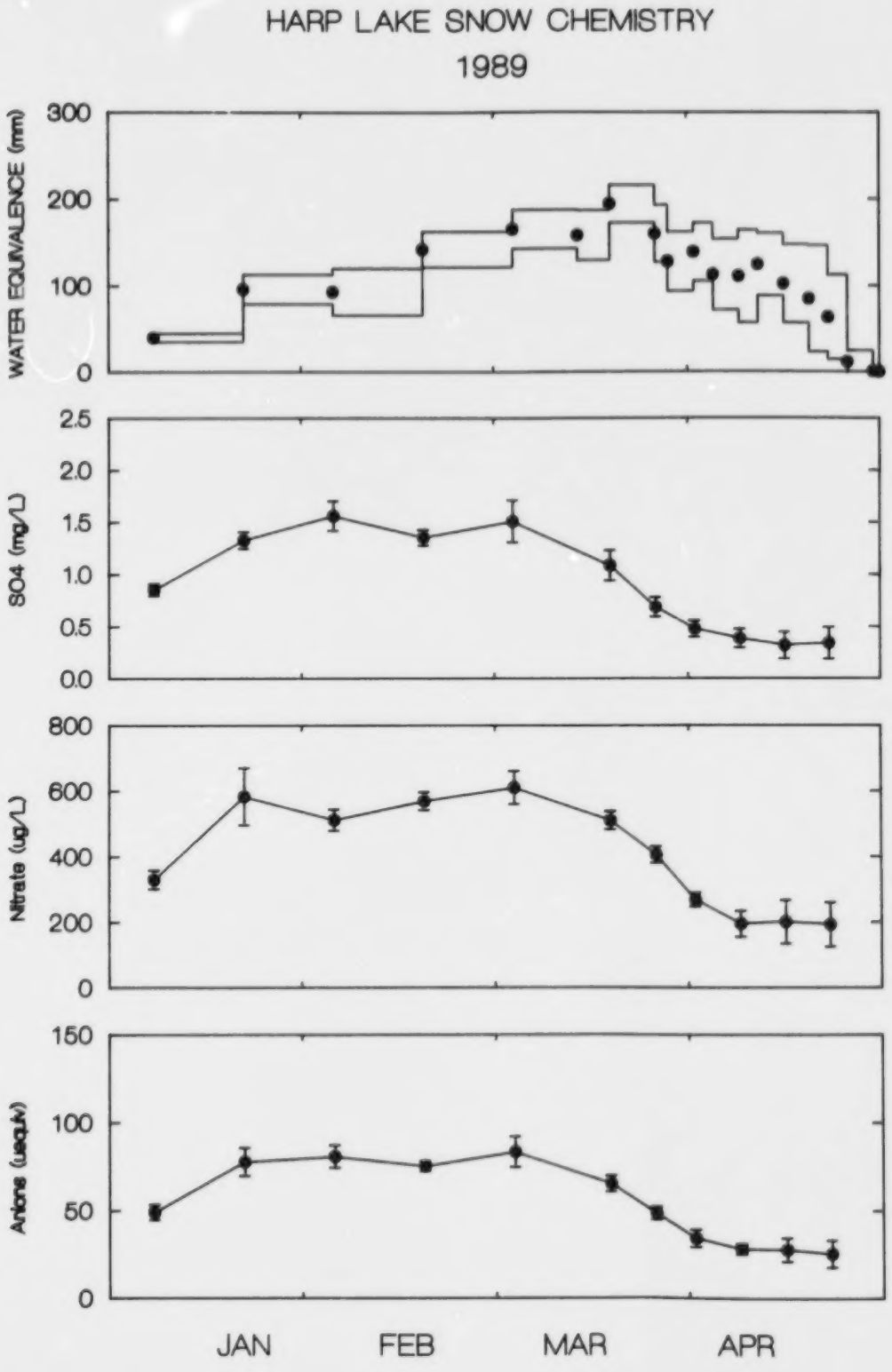

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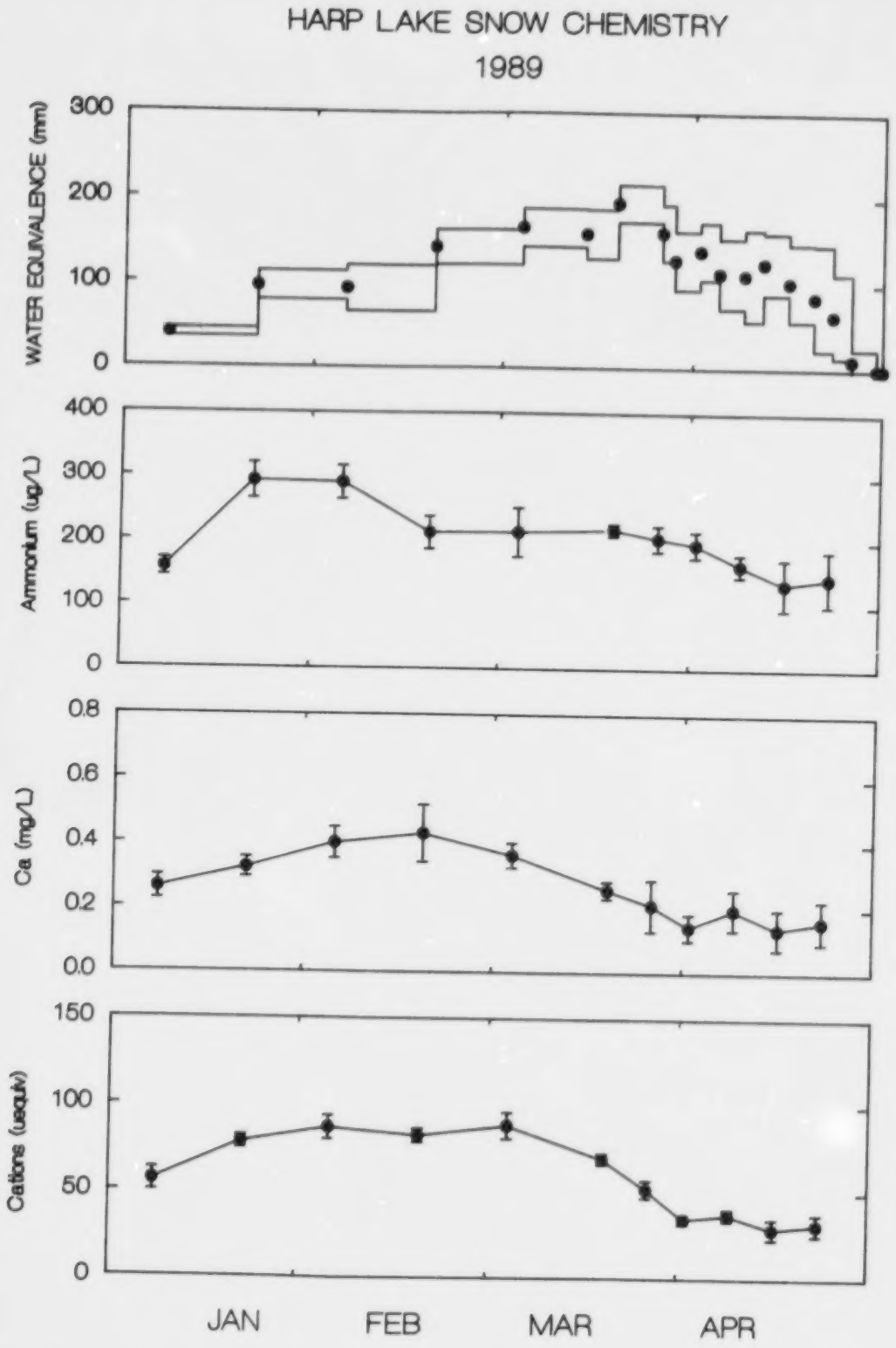

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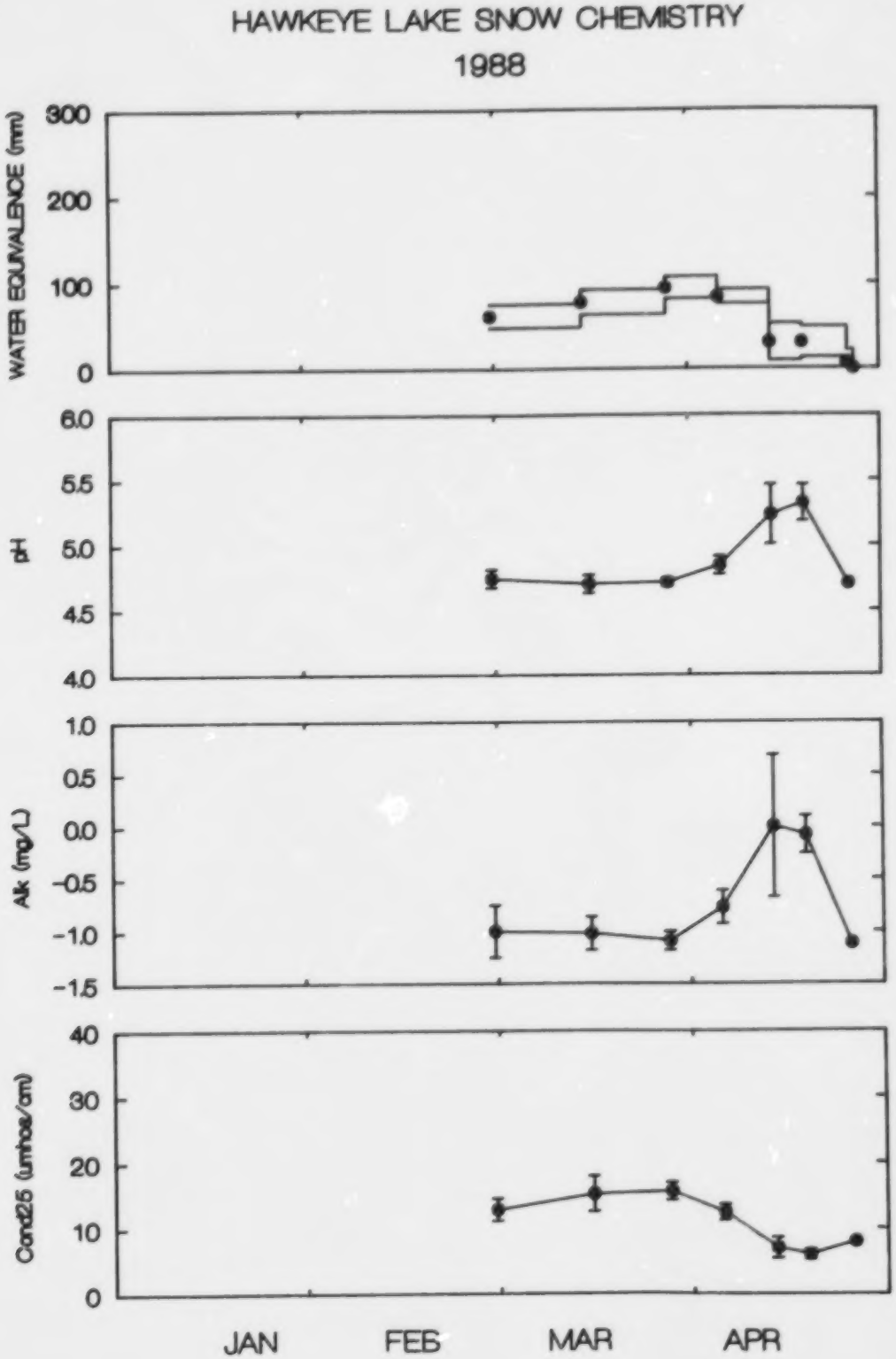
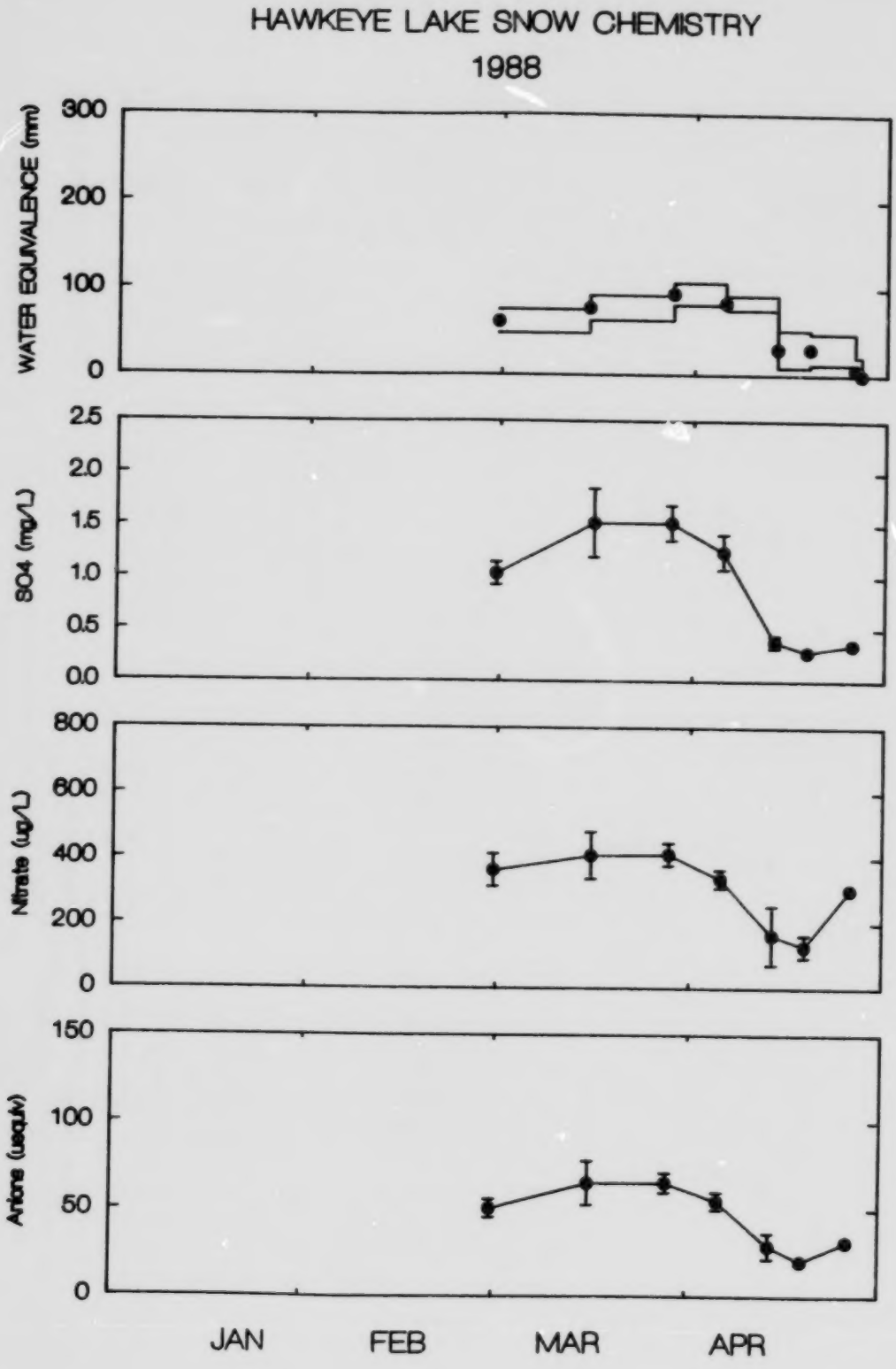

HAWKEYE LAKE SNOW CHEMISTRY
1988
WATER EQUIVALENCE (mm)
300
200
100
0
pH
6.0
5.5
5.0
4.5
4.0
Alk (mg/L)
1.0
0.5
0.0
-0.5
-1.0
-1.5
Cond25 (umhos/cm)
40
30
20
10
0
JAN
FEB
MAR
APR

Figure 7



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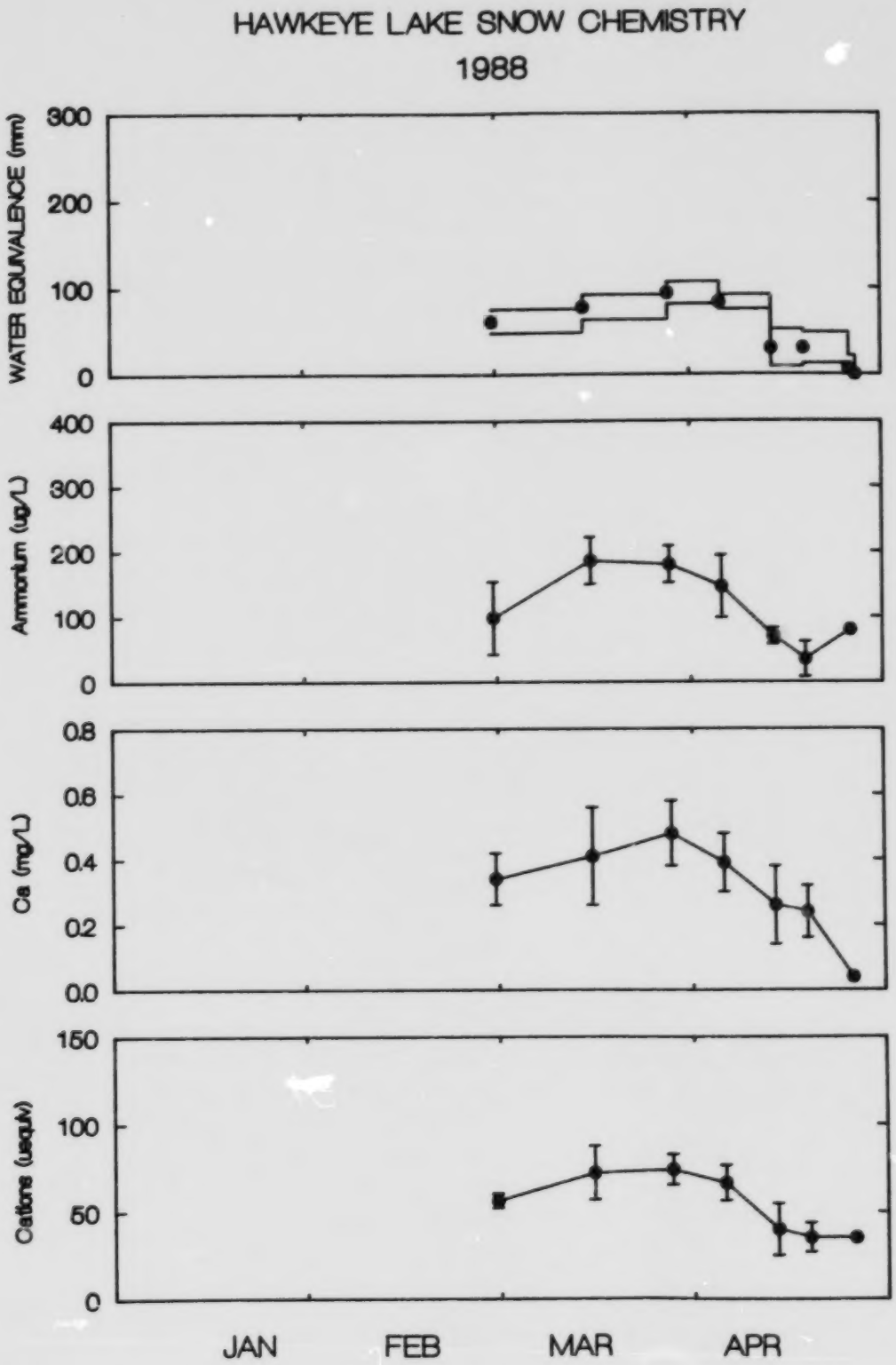

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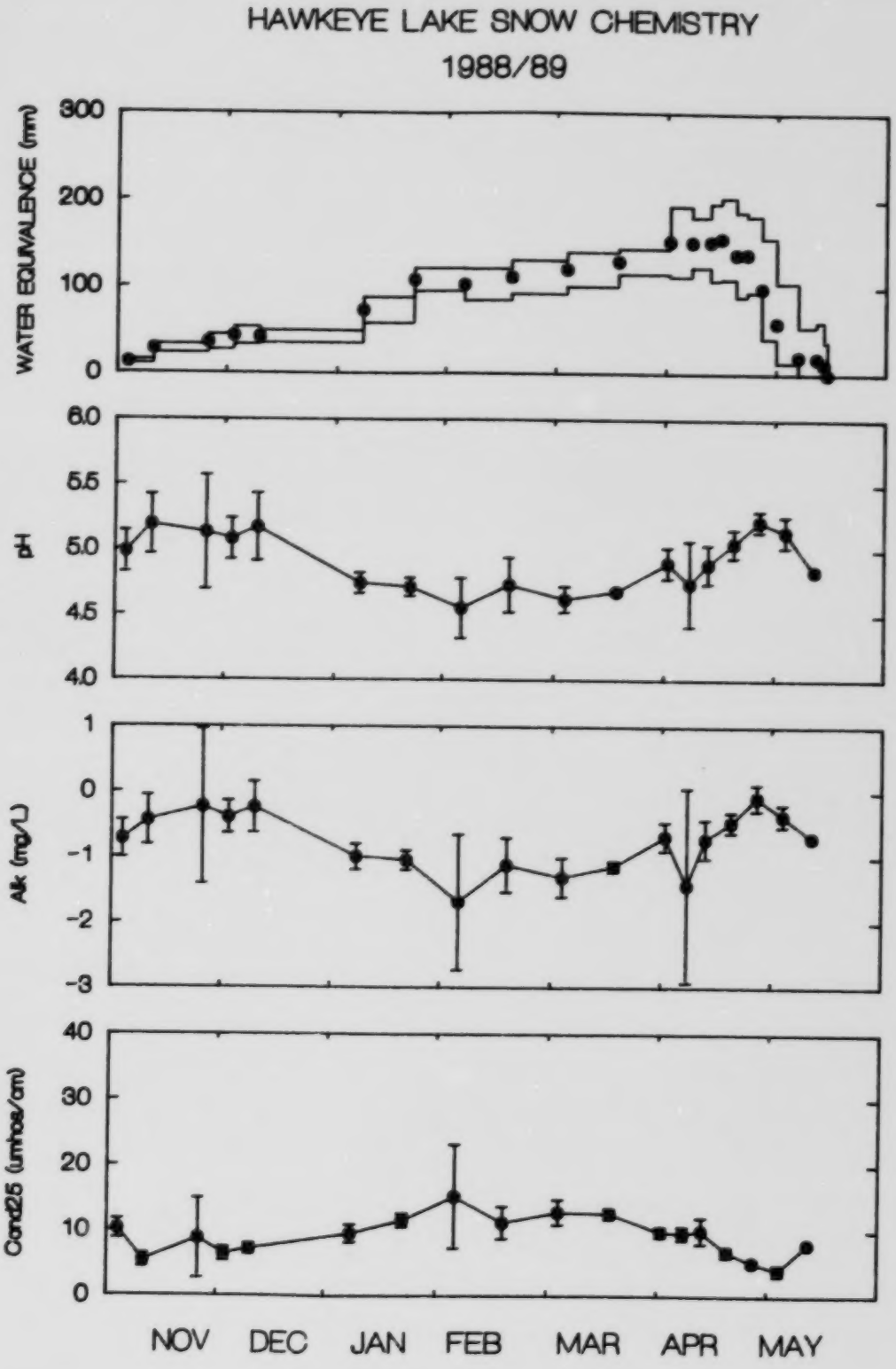

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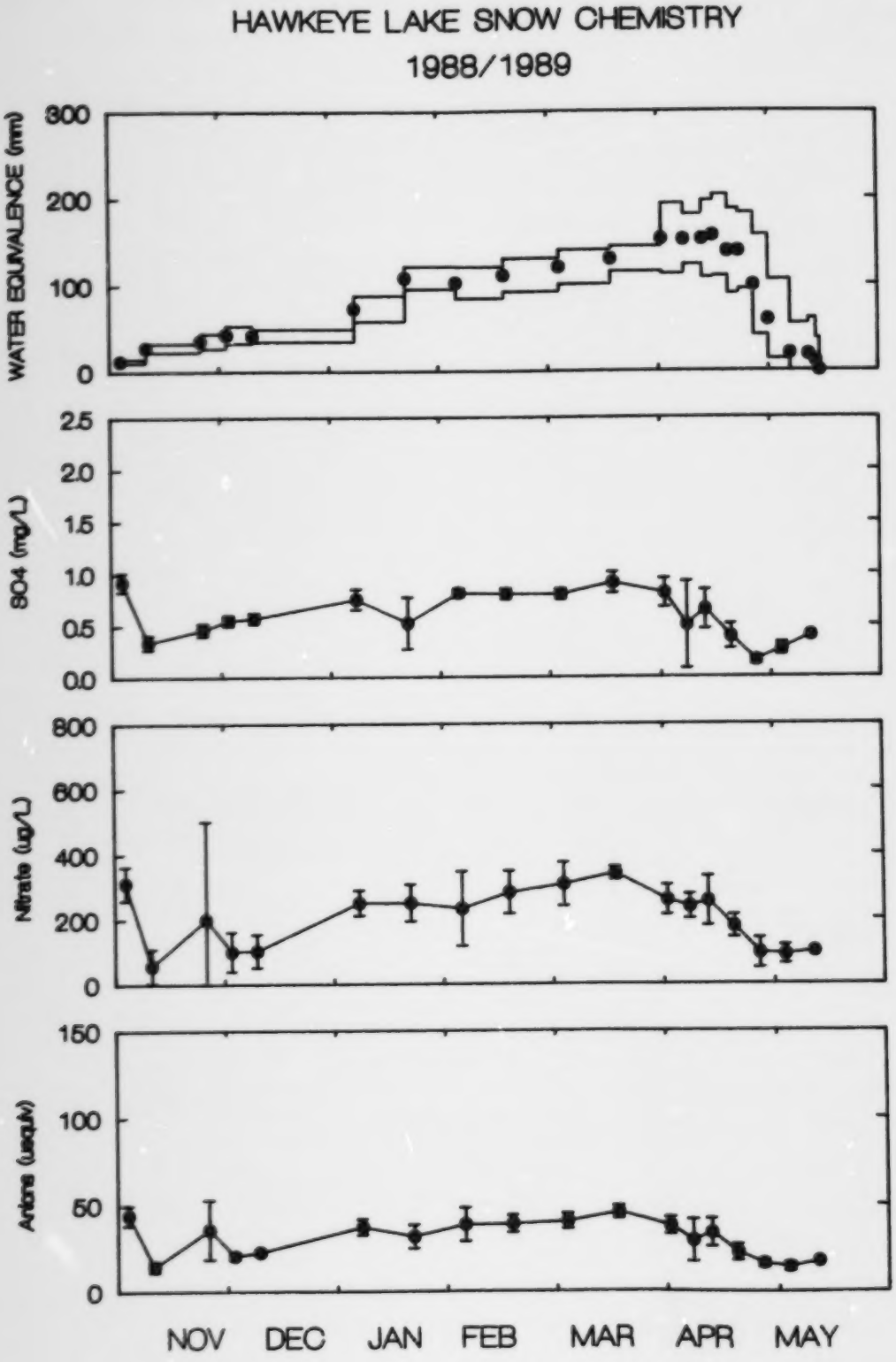

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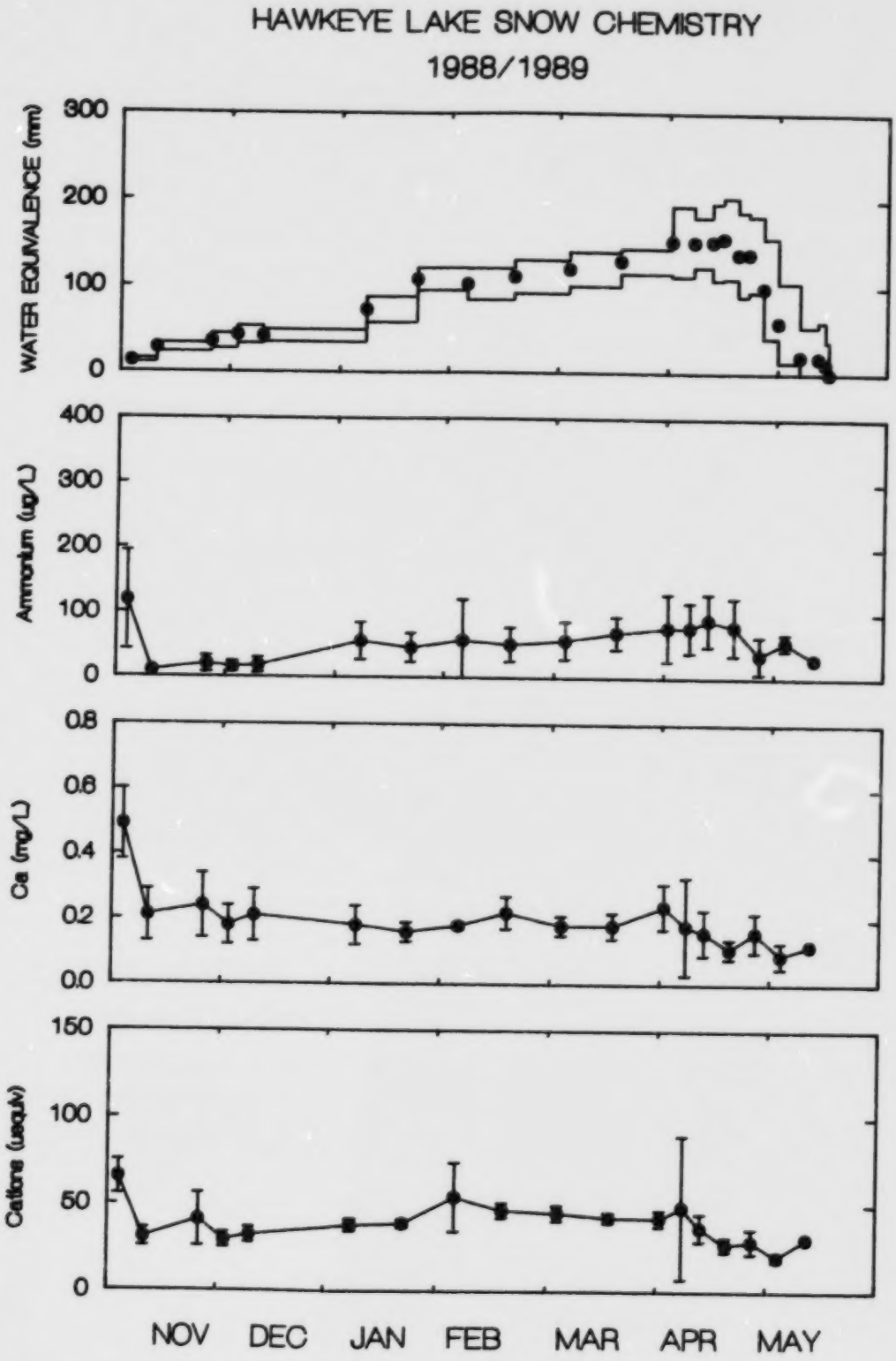

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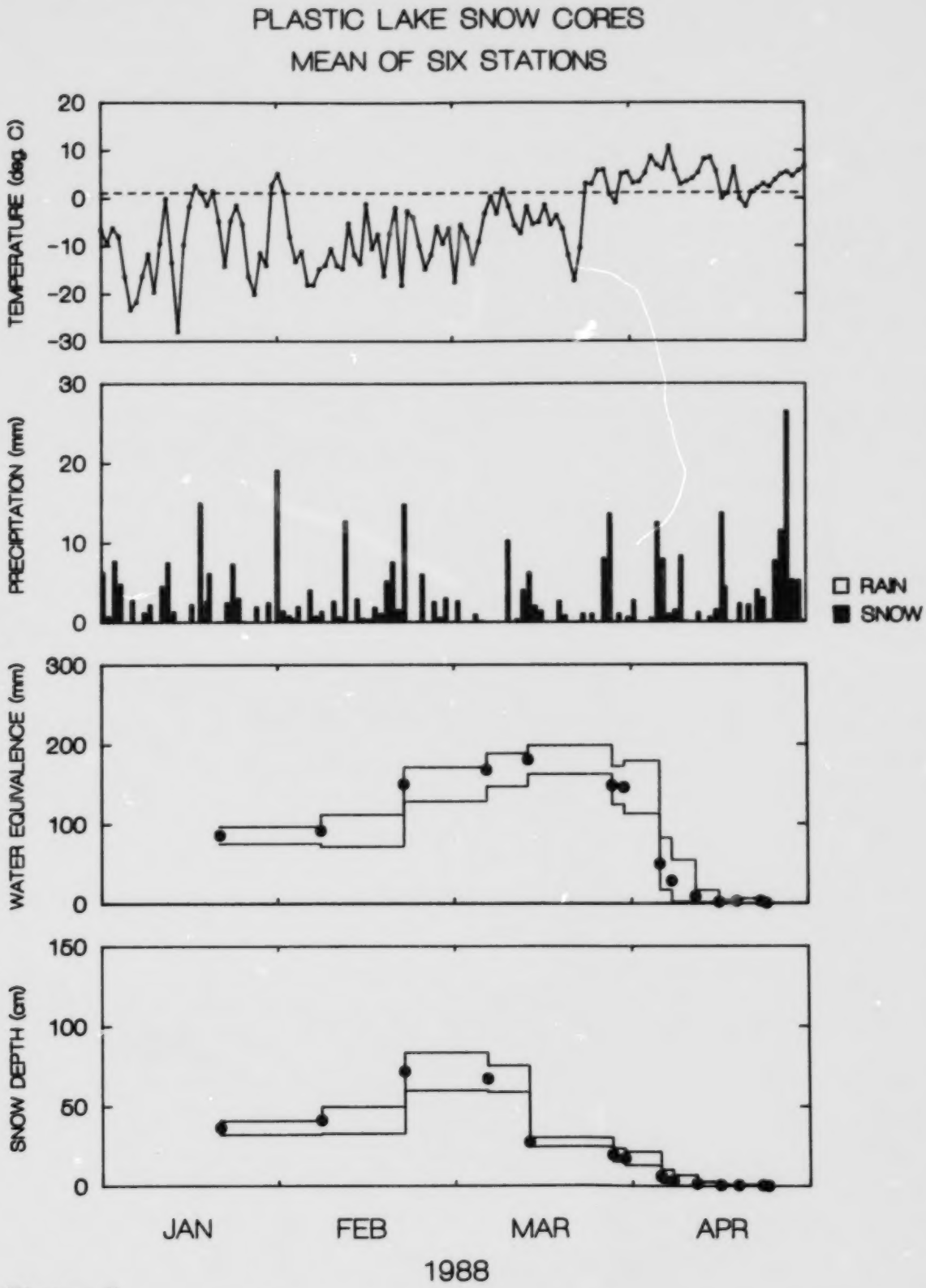
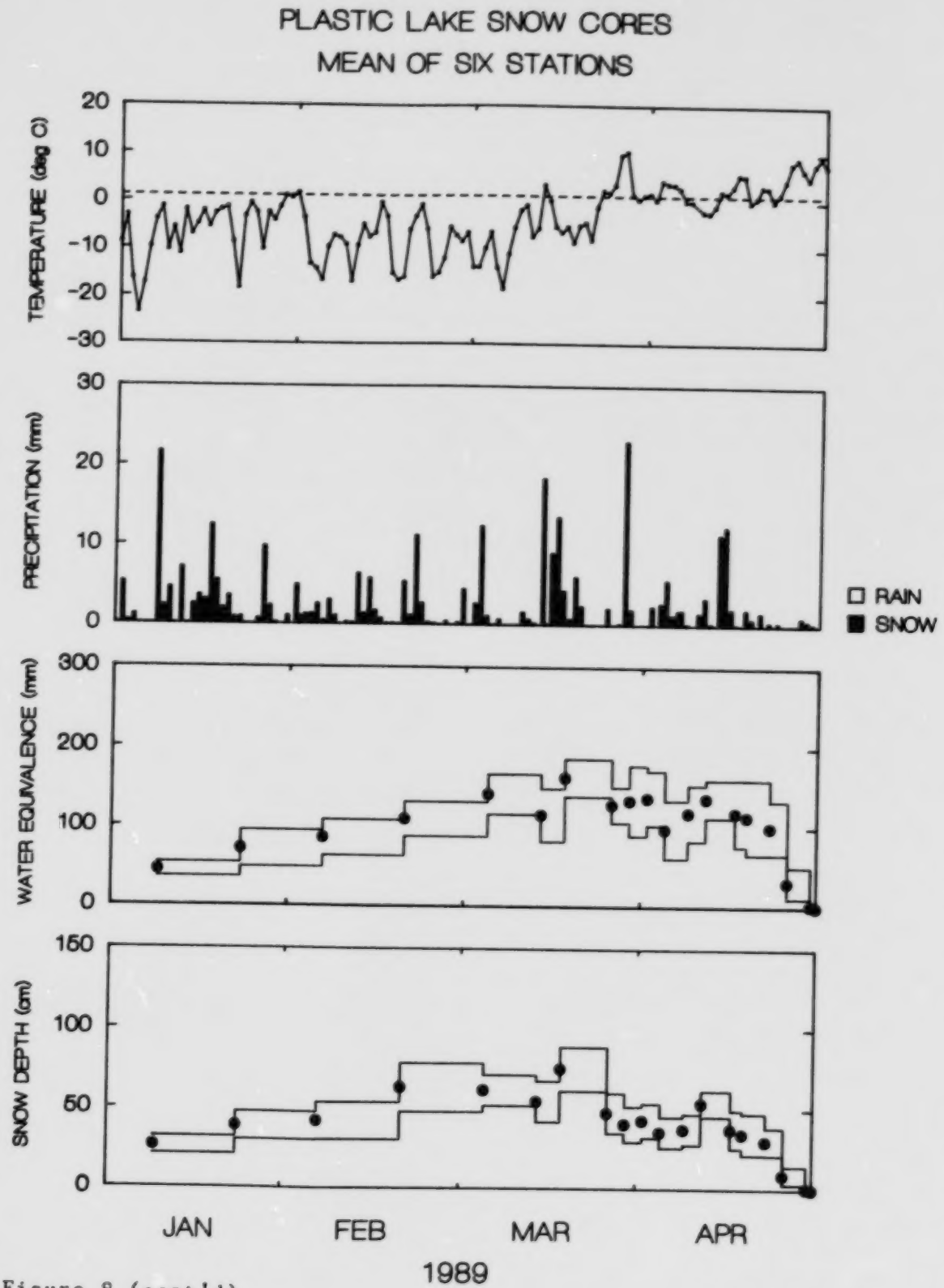

PLASTIC LAKE SNOW CORES
MEAN OF SIX STATIONS
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
150
100
50
0
JAN
FEB
MAR
APR
1988

Figure 8



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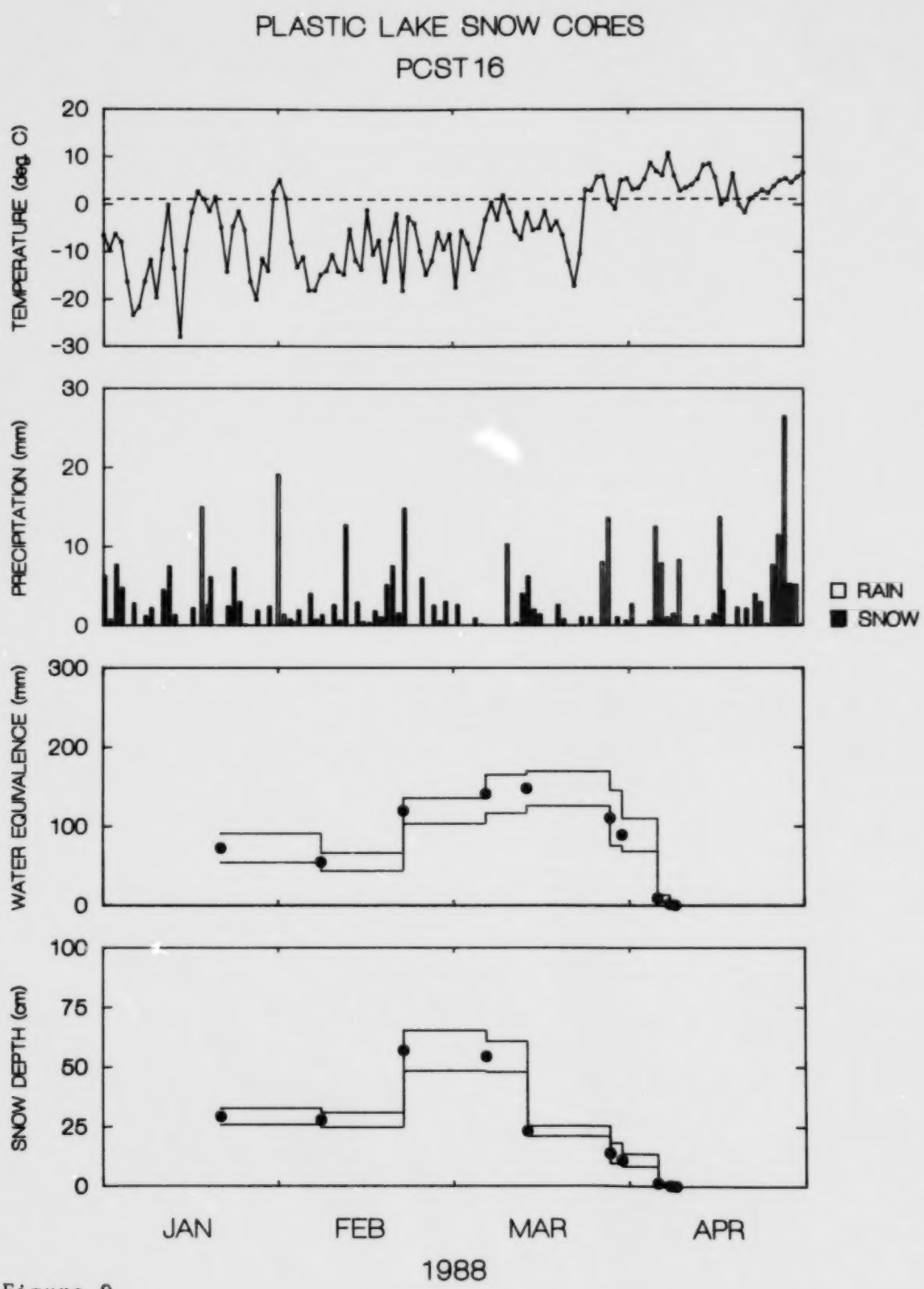
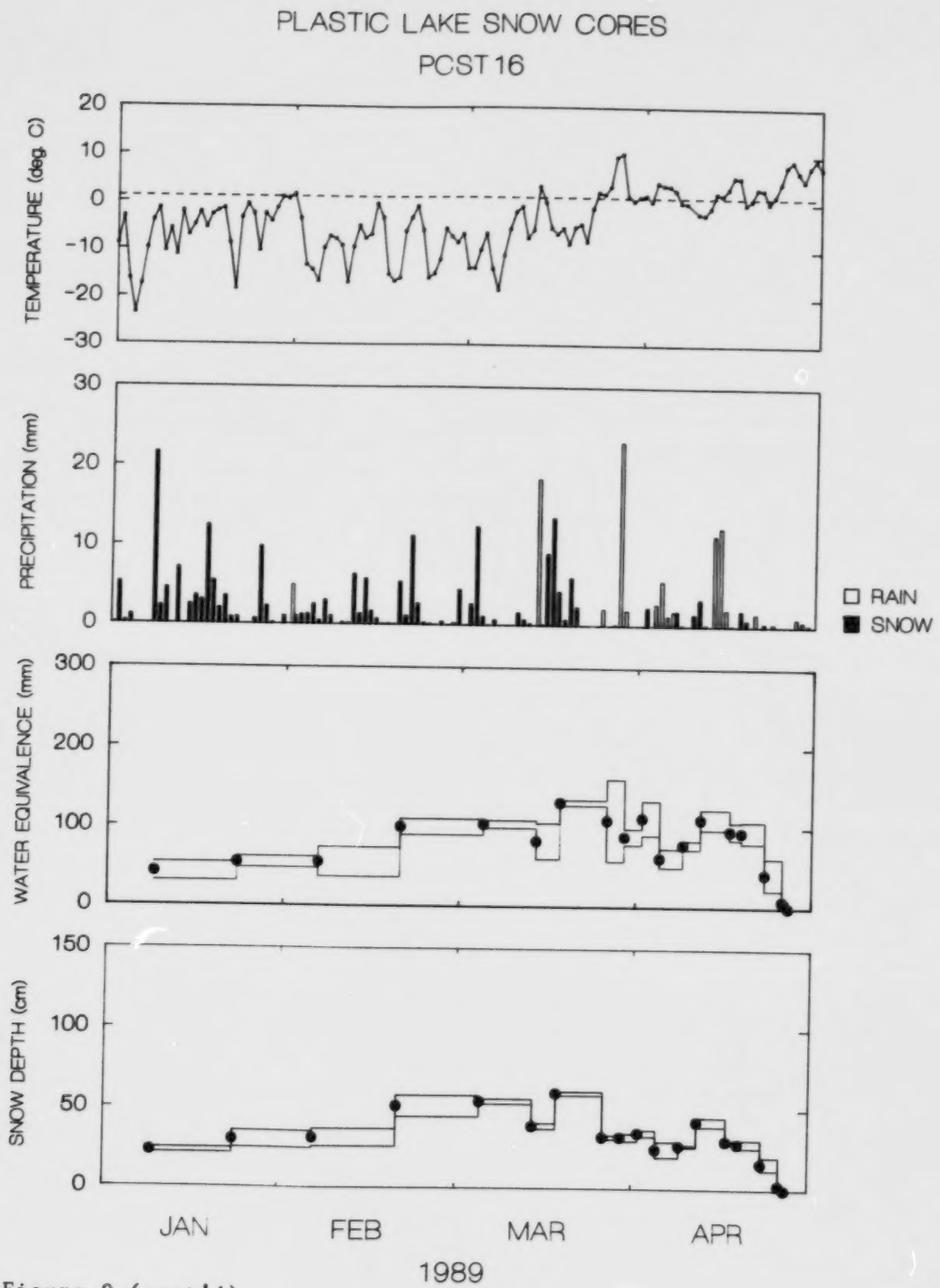

PLASTIC LAKE SNOW CORES
PCST16
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 9



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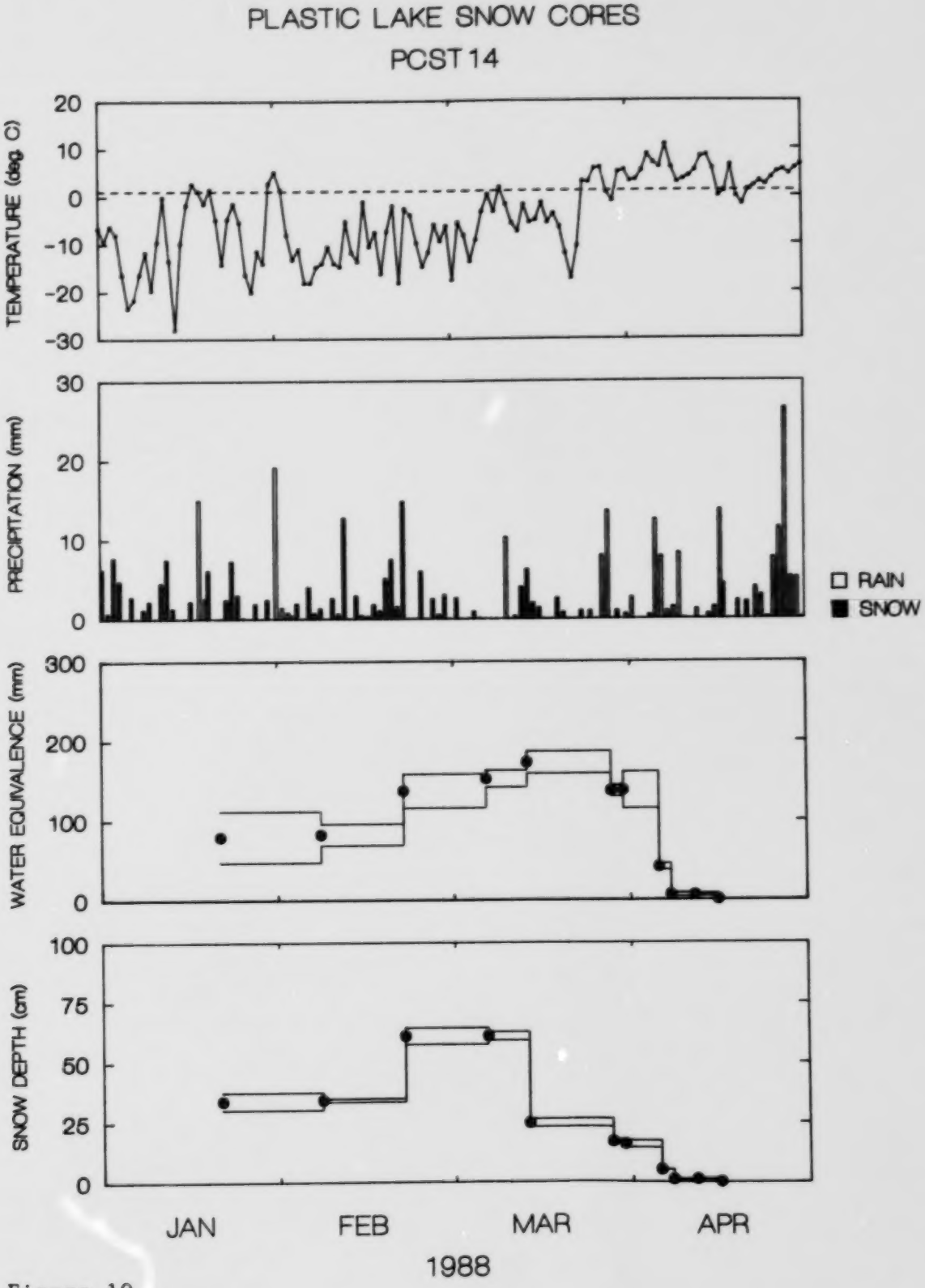
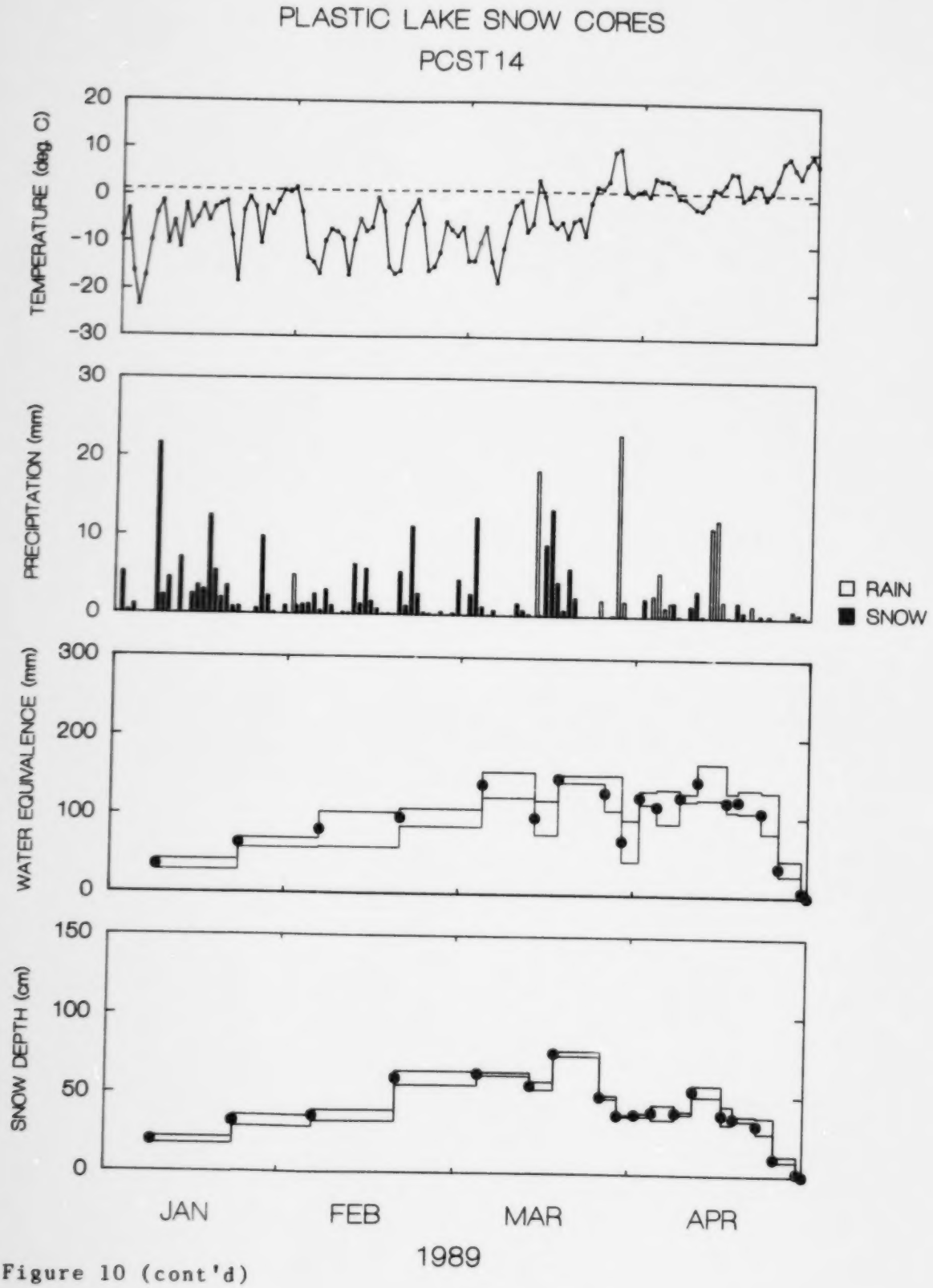

PLASTIC LAKE SNOW CORES
PCST 14
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 10



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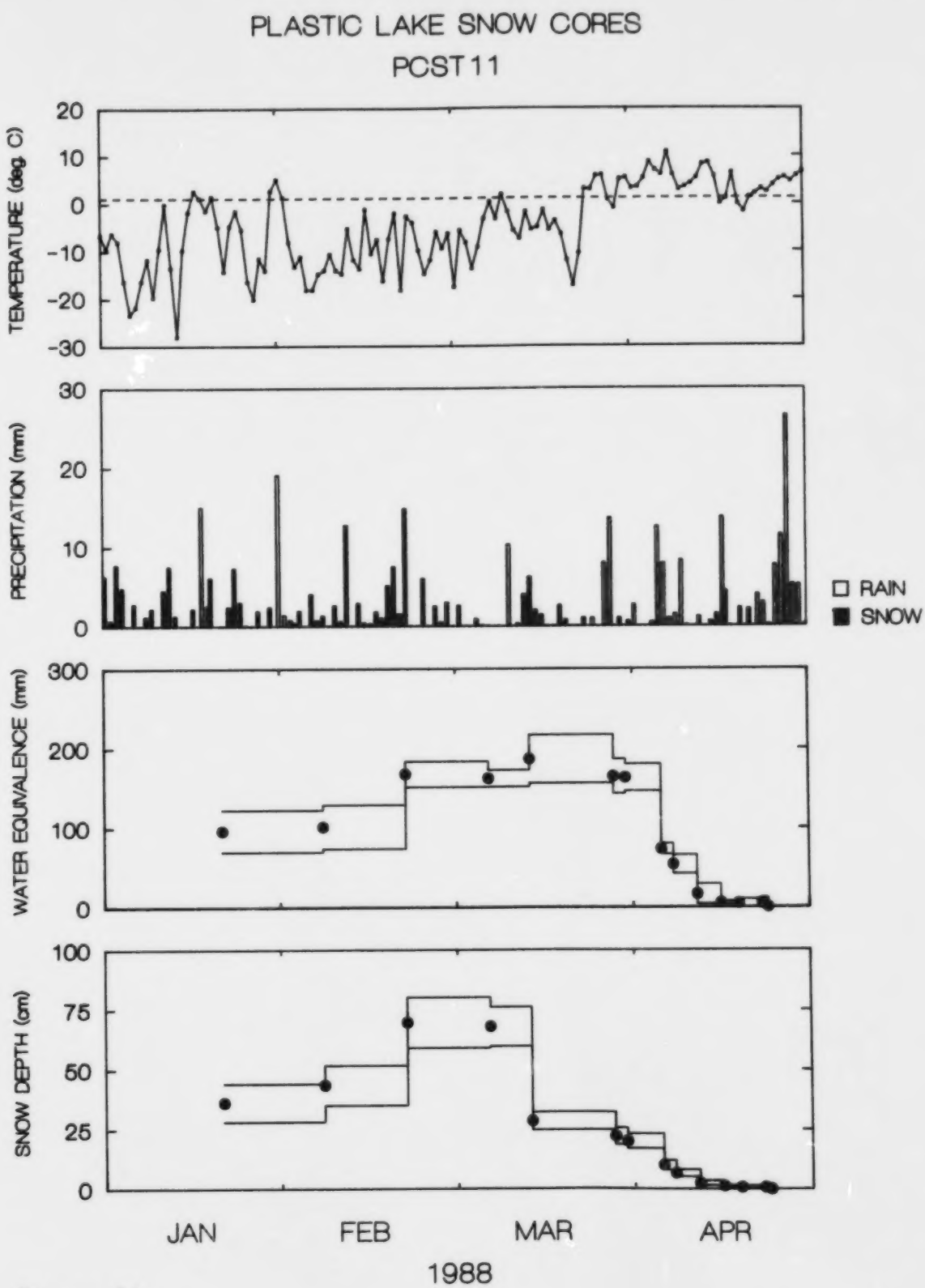
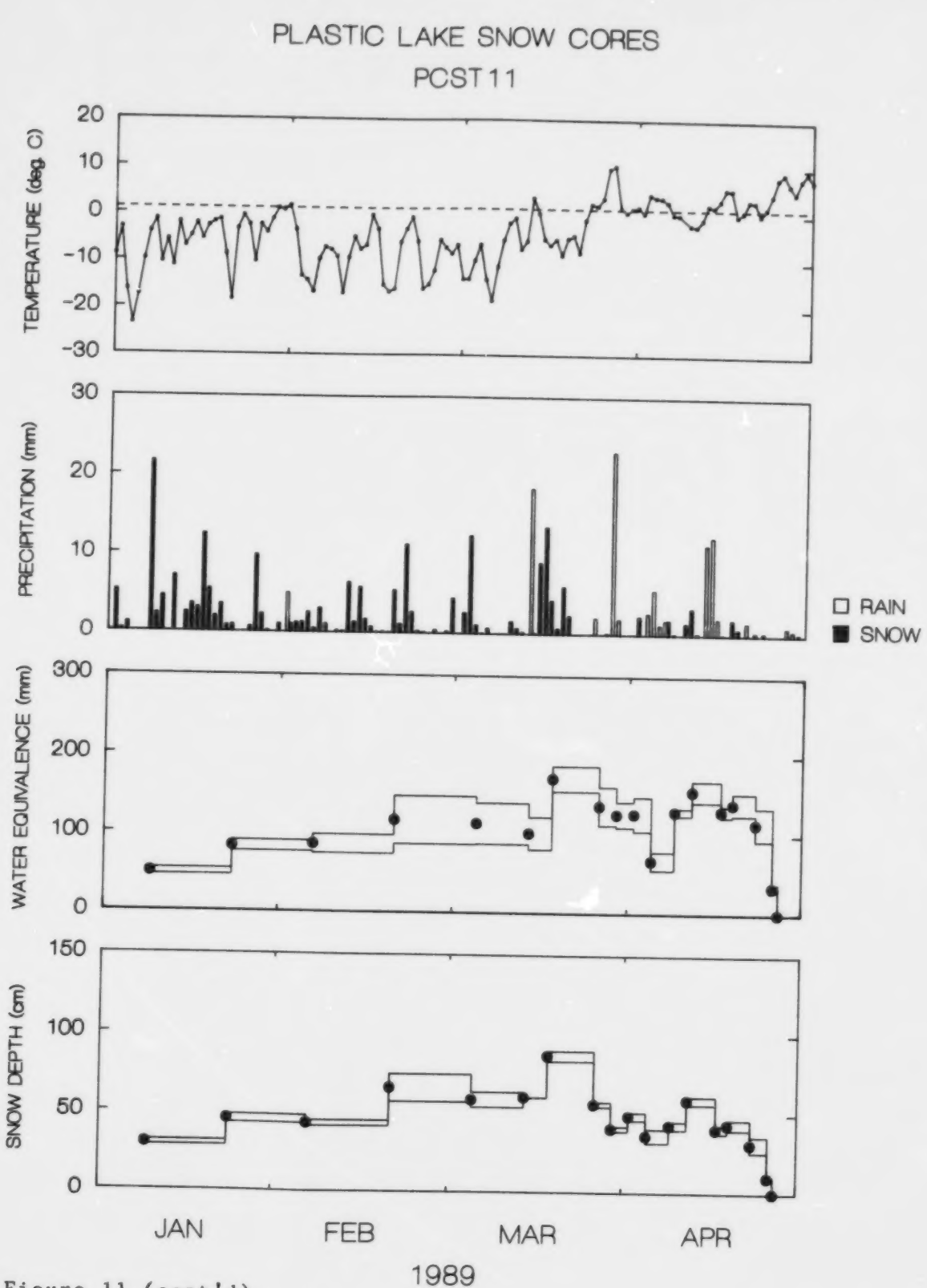

PLASTIC LAKE SNOW CORES
PCST11
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 11



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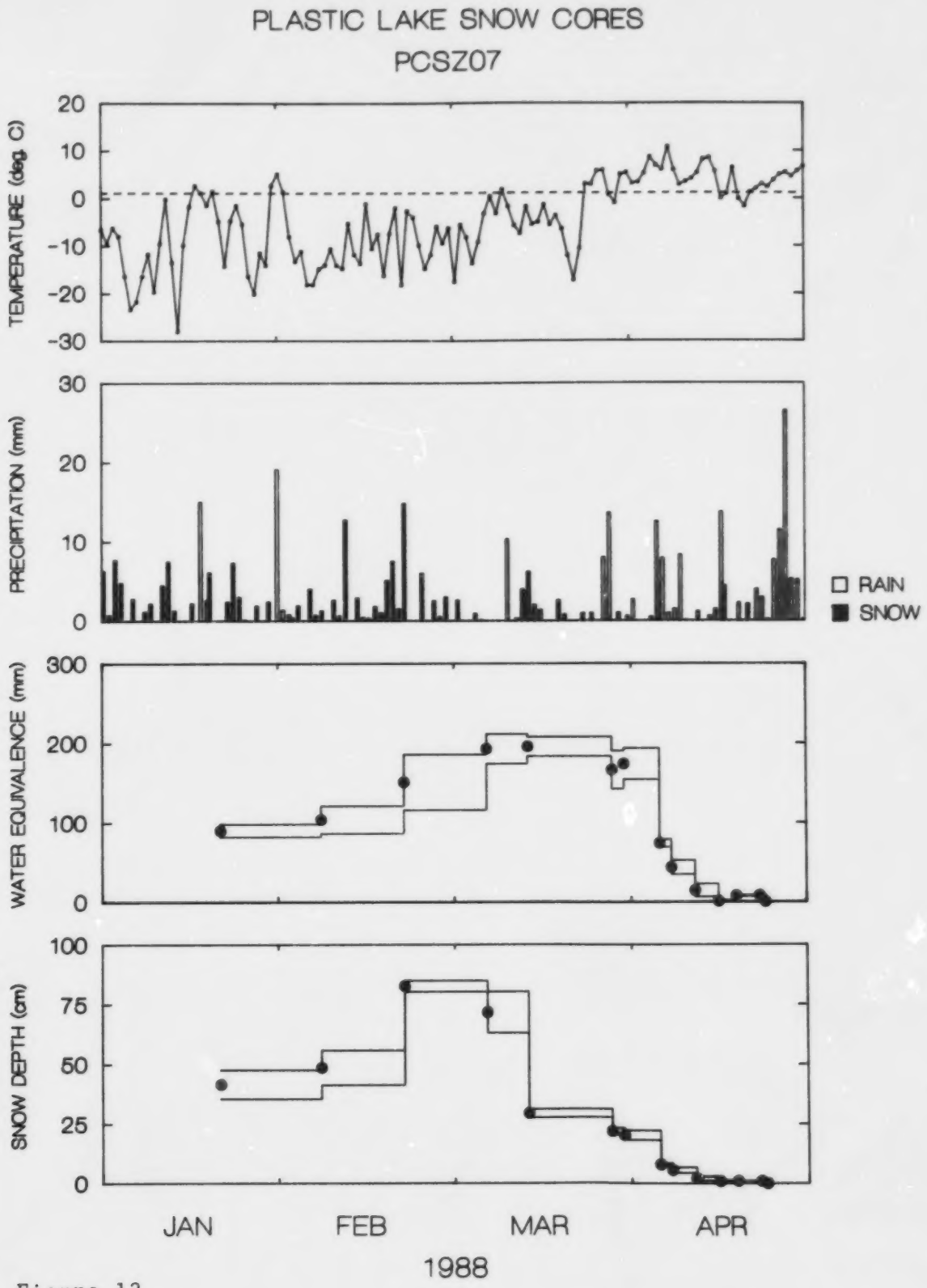
PLASTIC LAKE SNOW CORES
PCSZ07
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 12

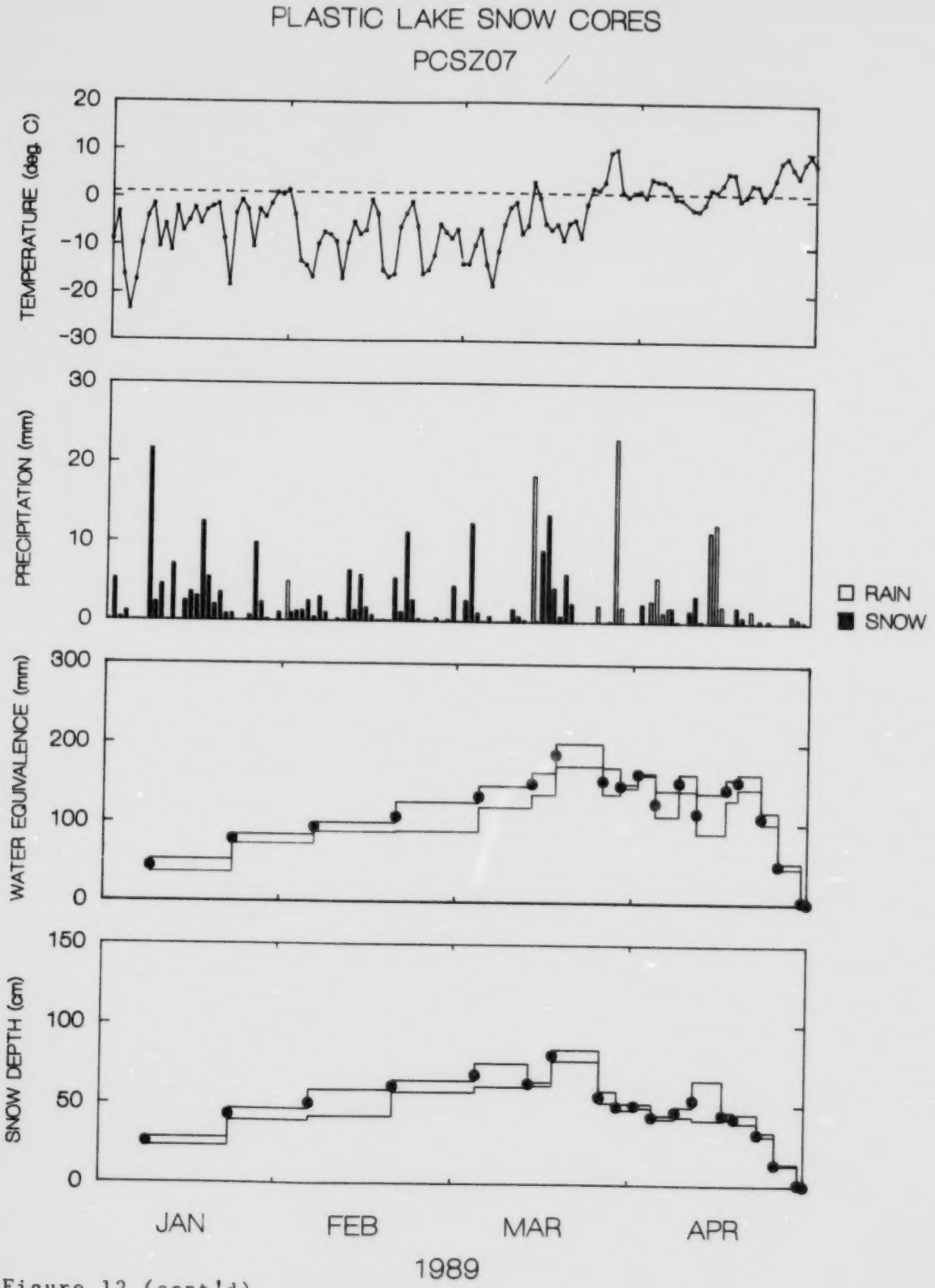

Figure 12 (cont'd)

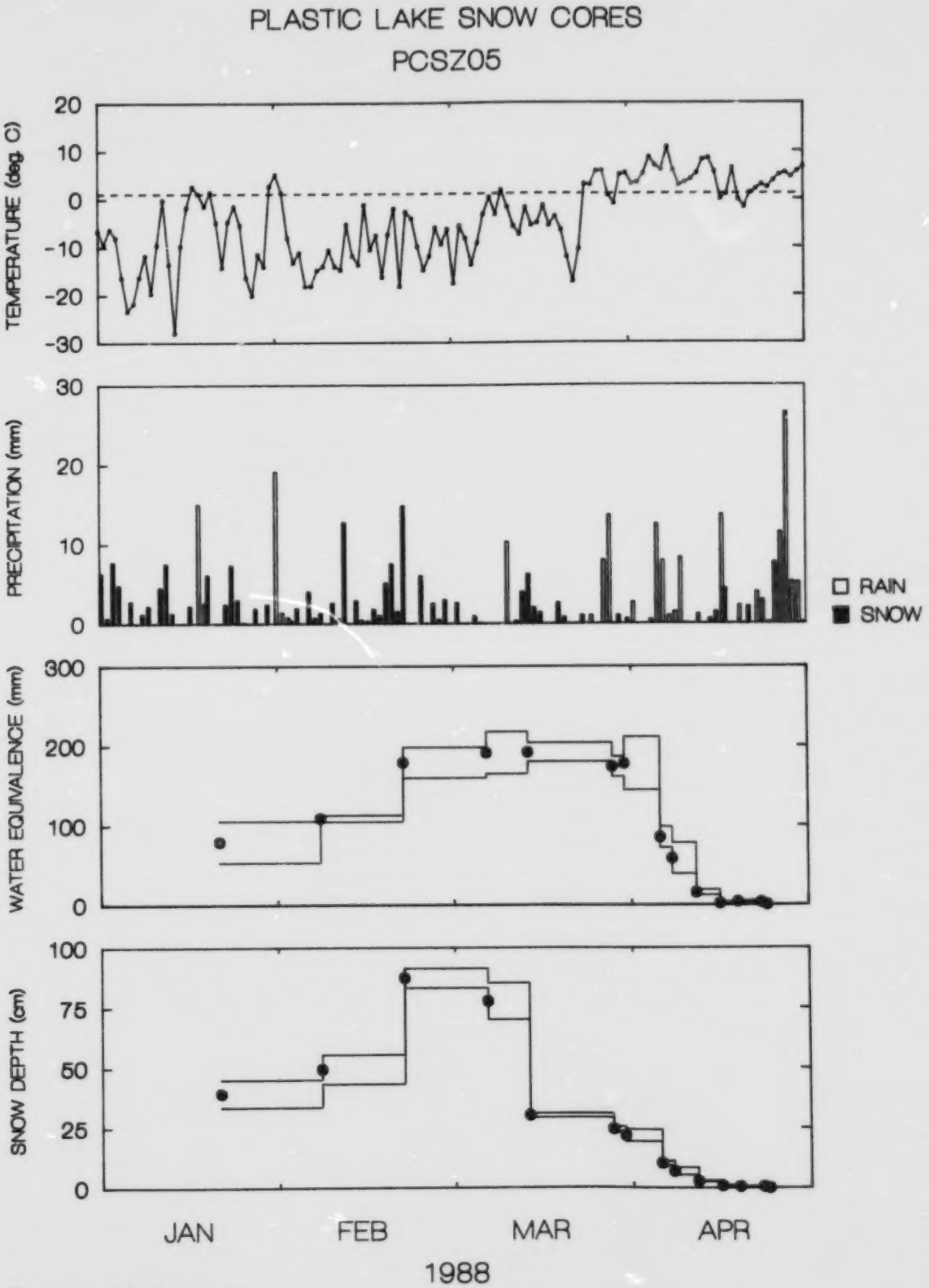

Figure 13 (cont'd)

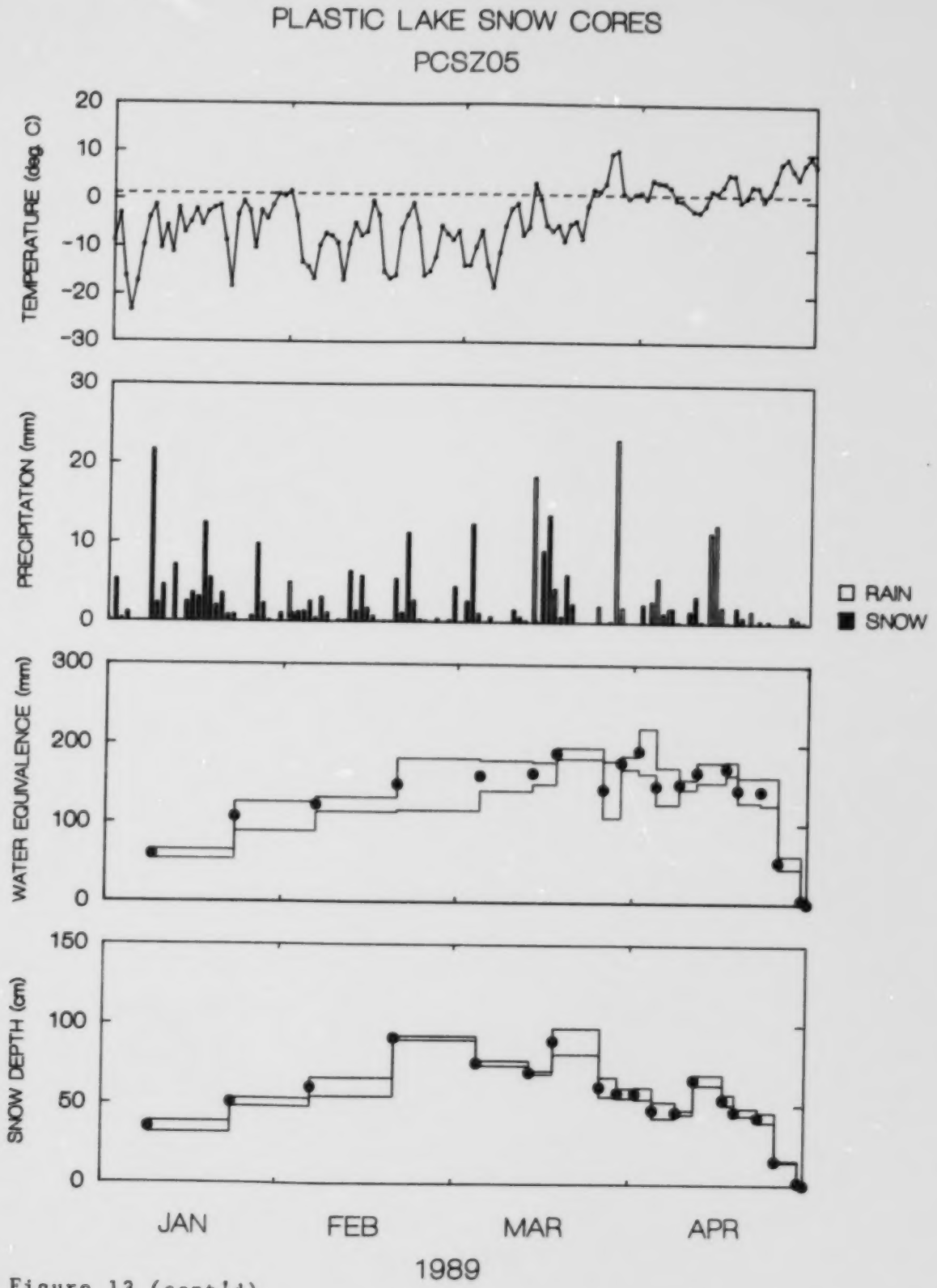

Figure 13 (cont'd)

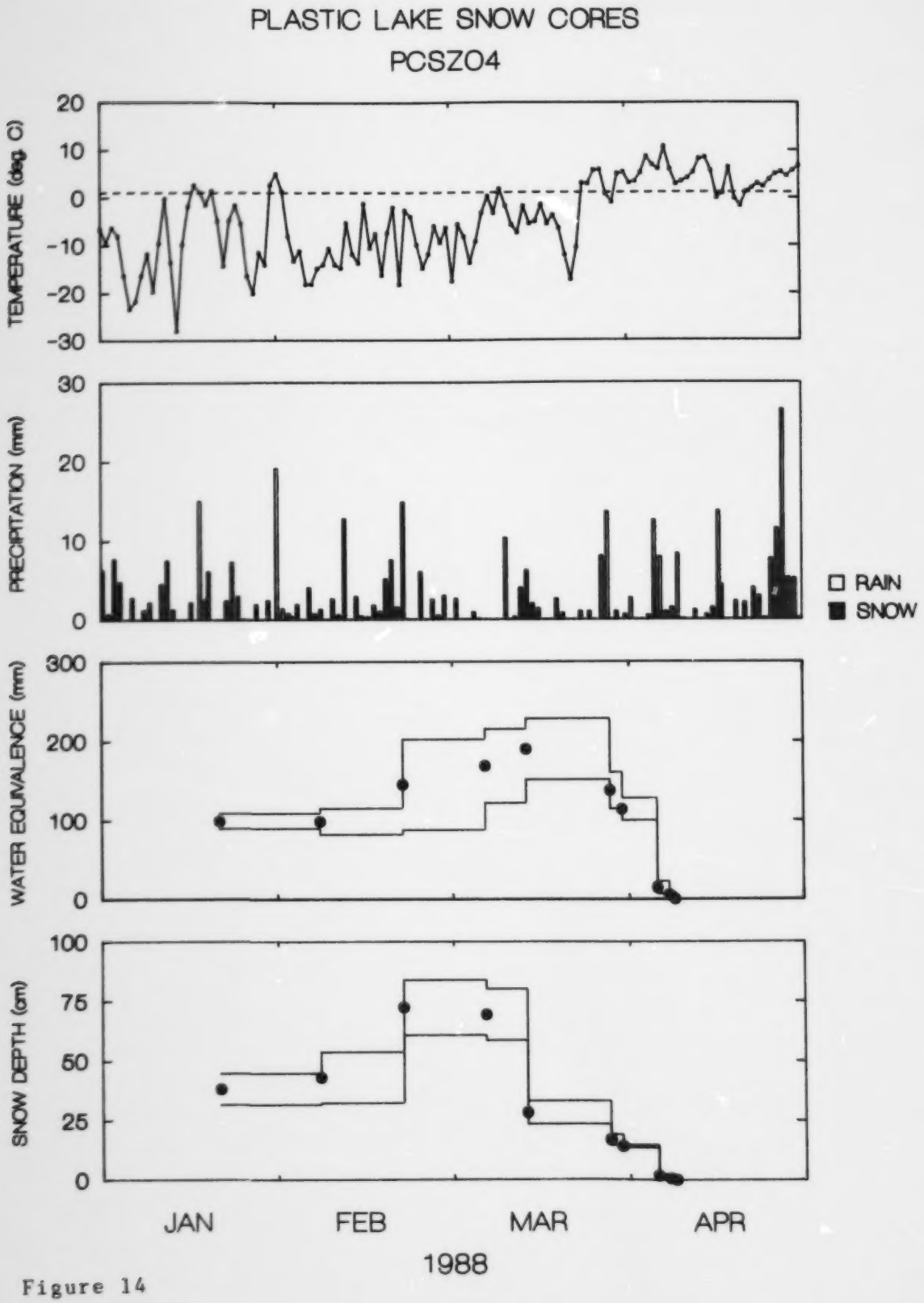
PLASTIC LAKE SNOW CORES
PCSZ04
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 14

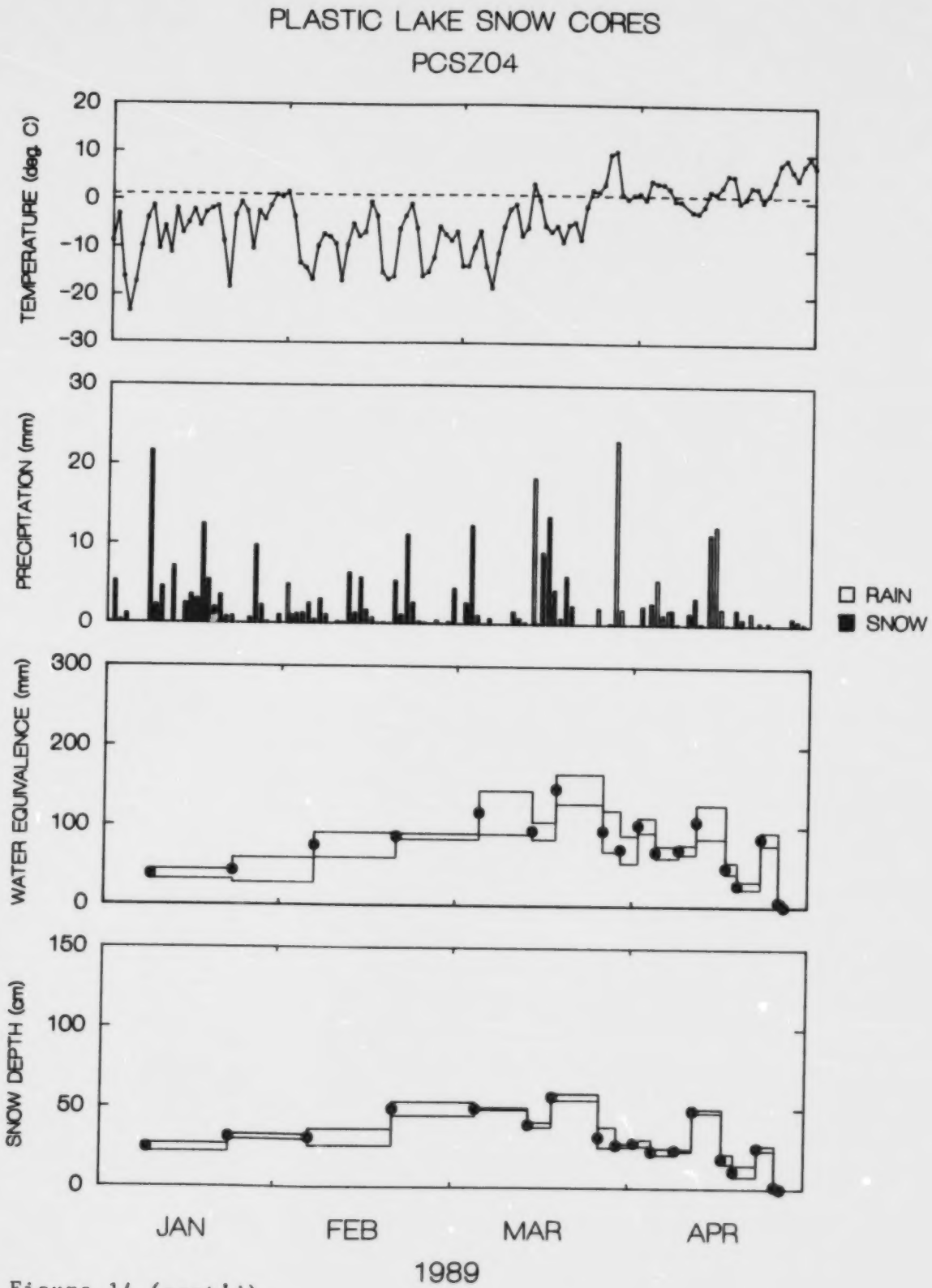

Figure 14 (cont'd)

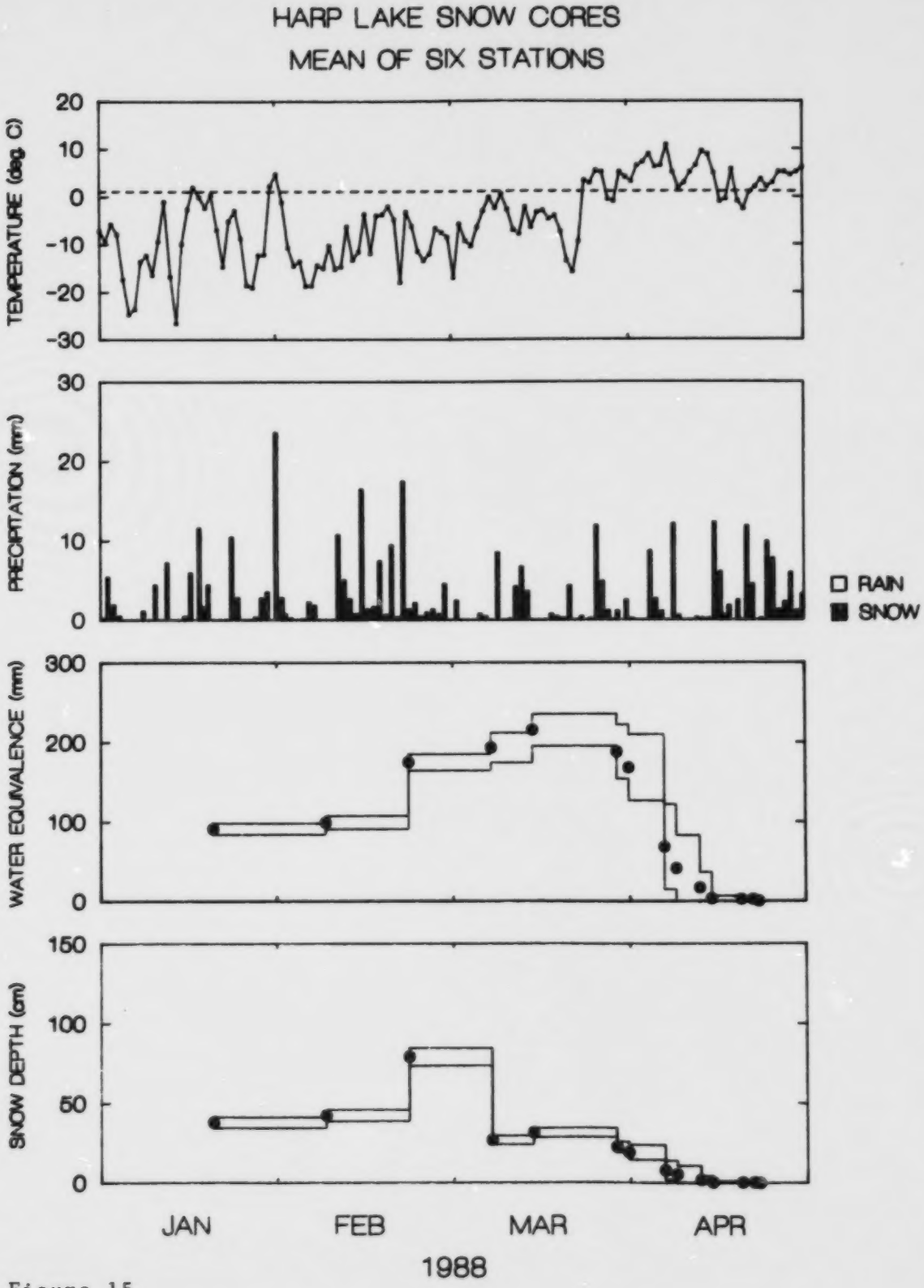
HARP LAKE SNOW CORES
MEAN OF SIX STATIONS
TEMPERATURE (deg. C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
150
100
50
0
JAN
FEB
MAR
APR
1988

Figure 15

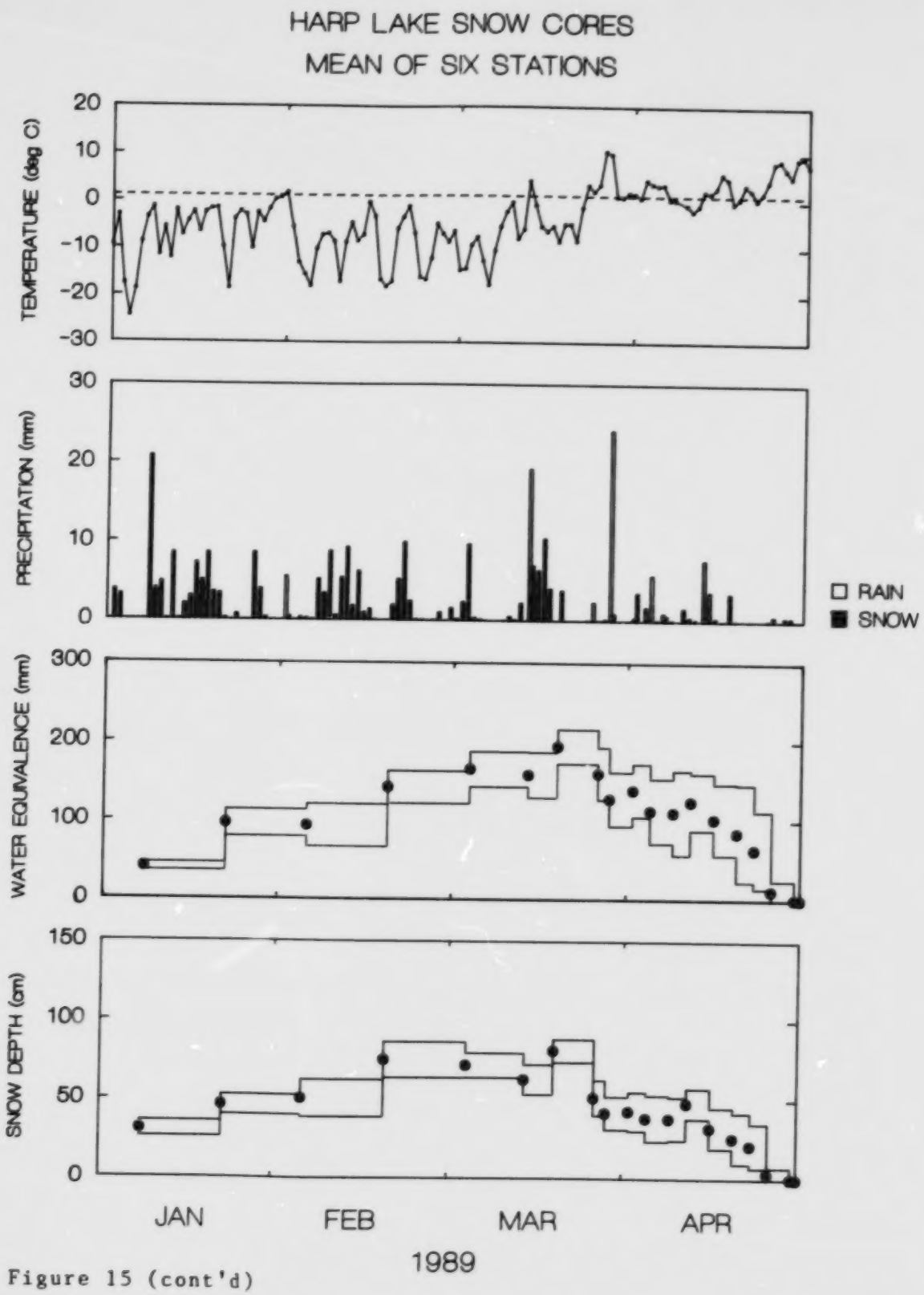

Figure 15 (cont'd)

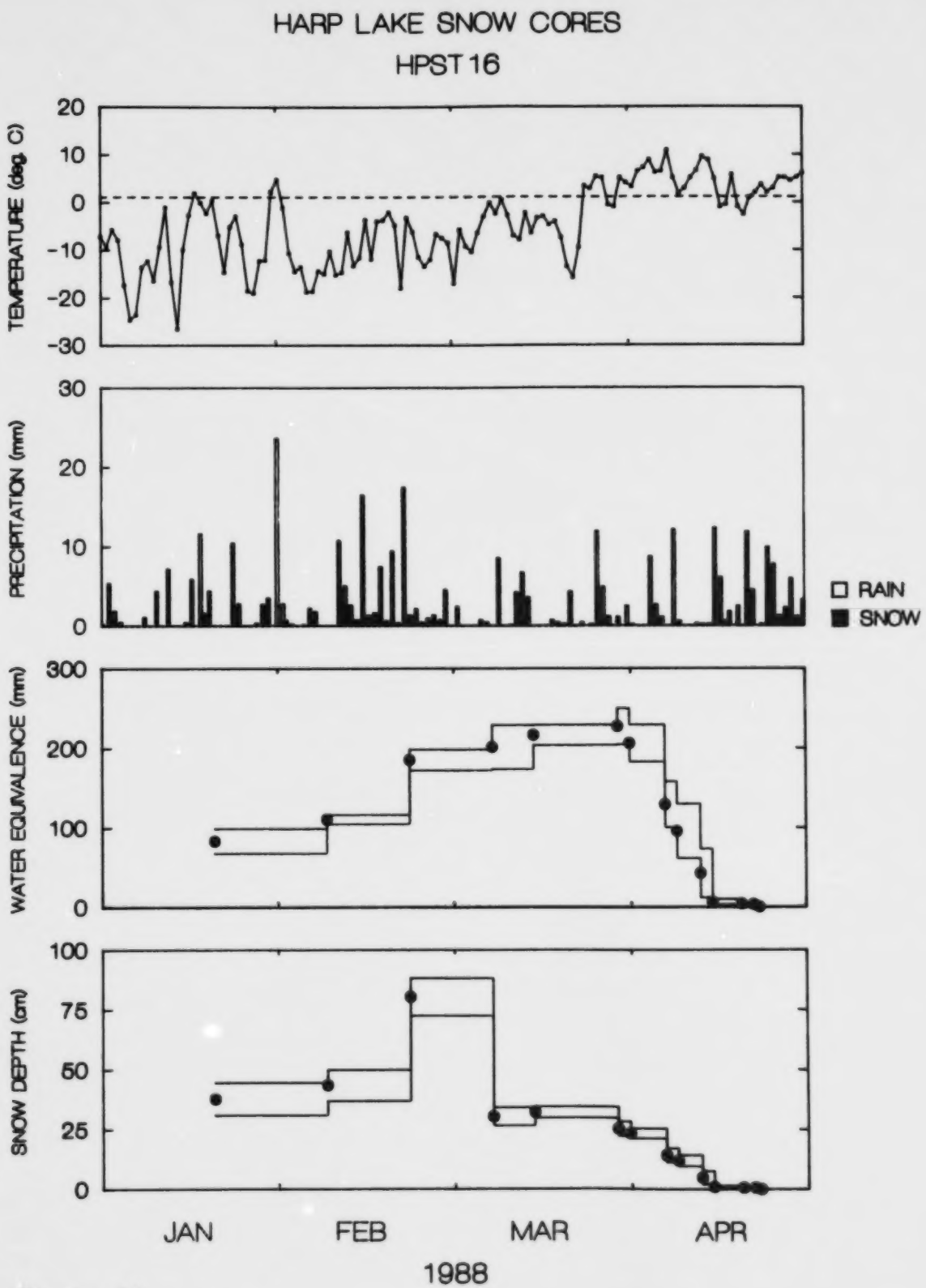
HARP LAKE SNOW CORES
HPST 16
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 16

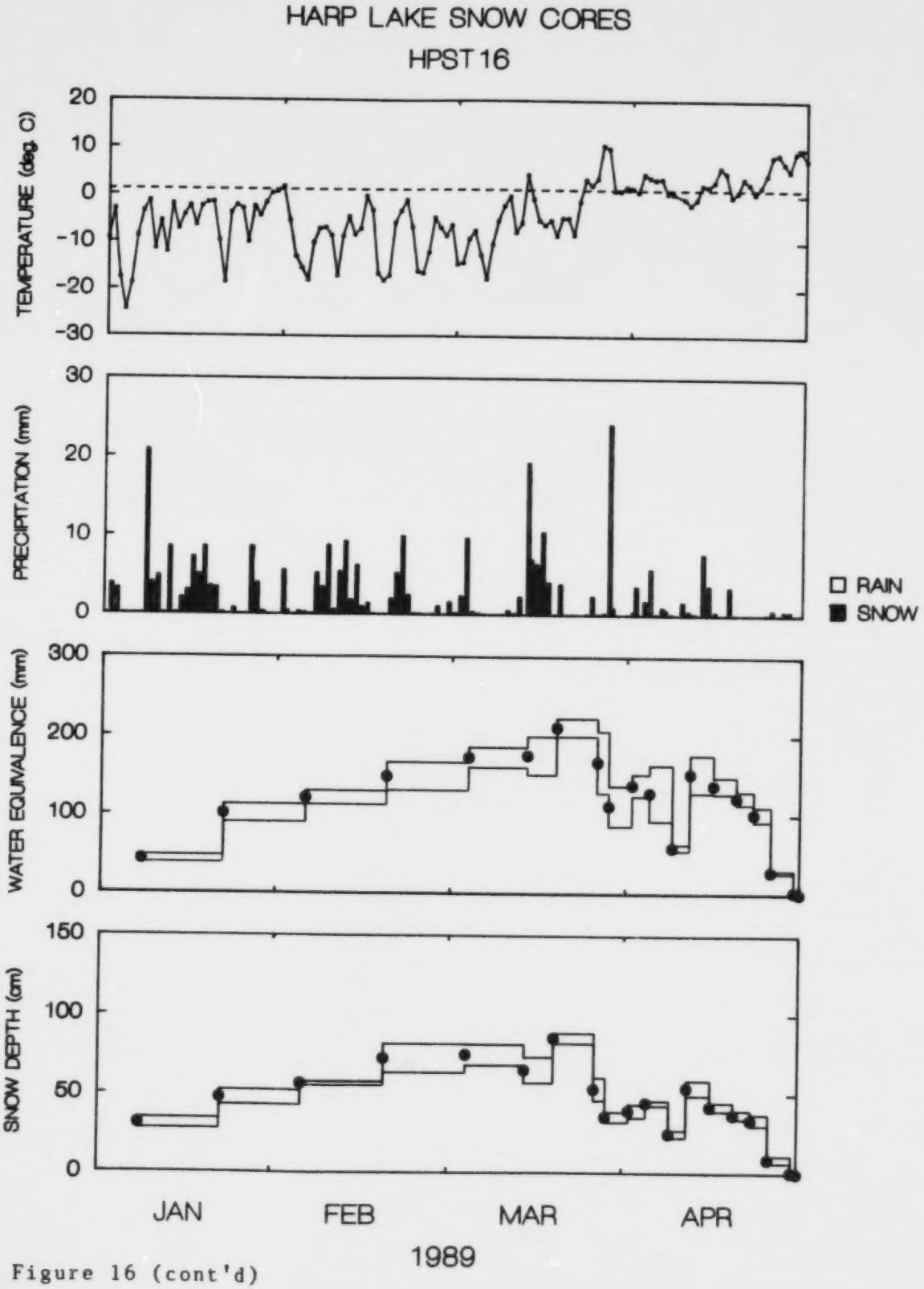

Figure 16 (cont'd)

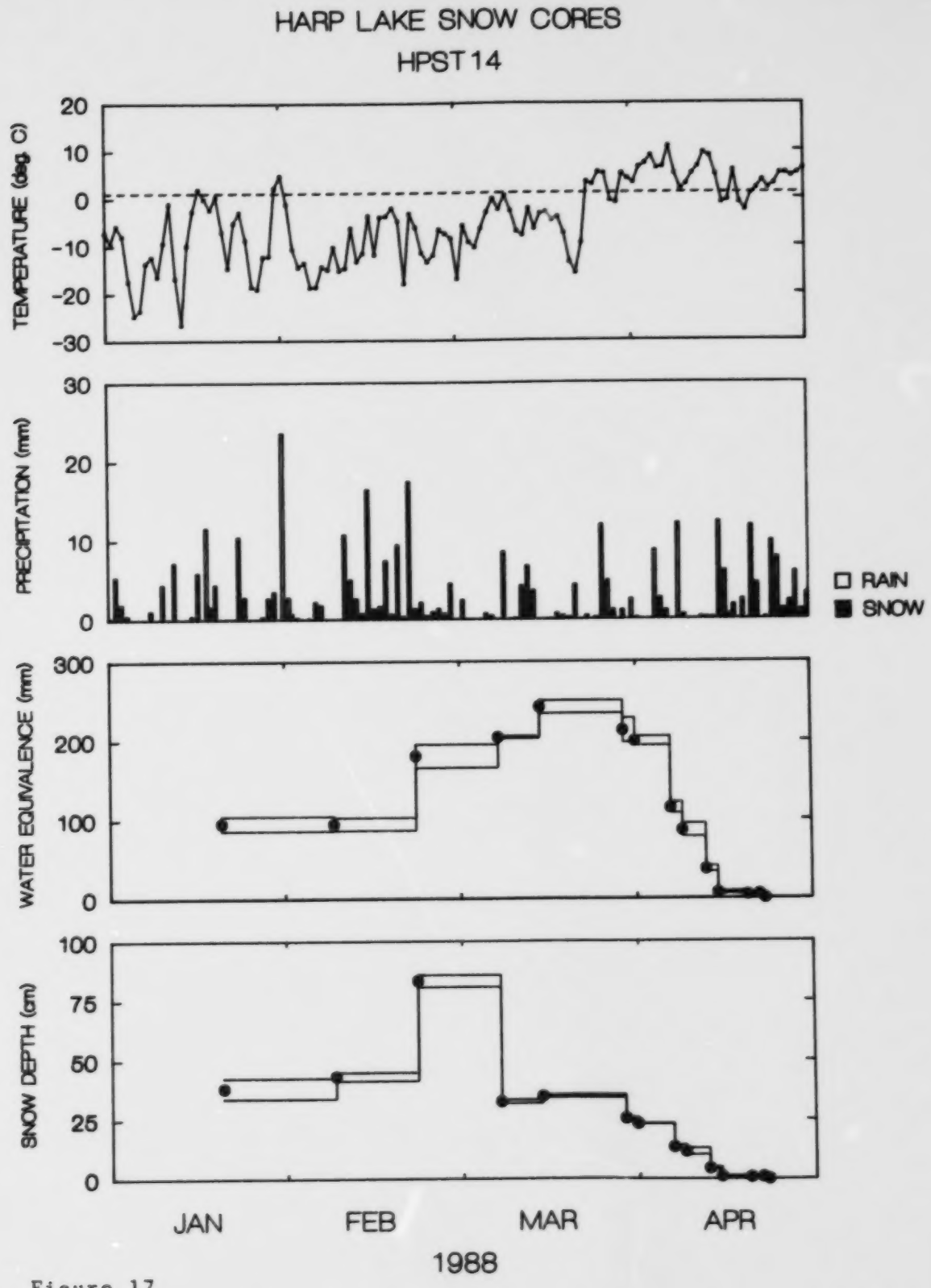
HARP LAKE SNOW CORES
HPST14
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 17

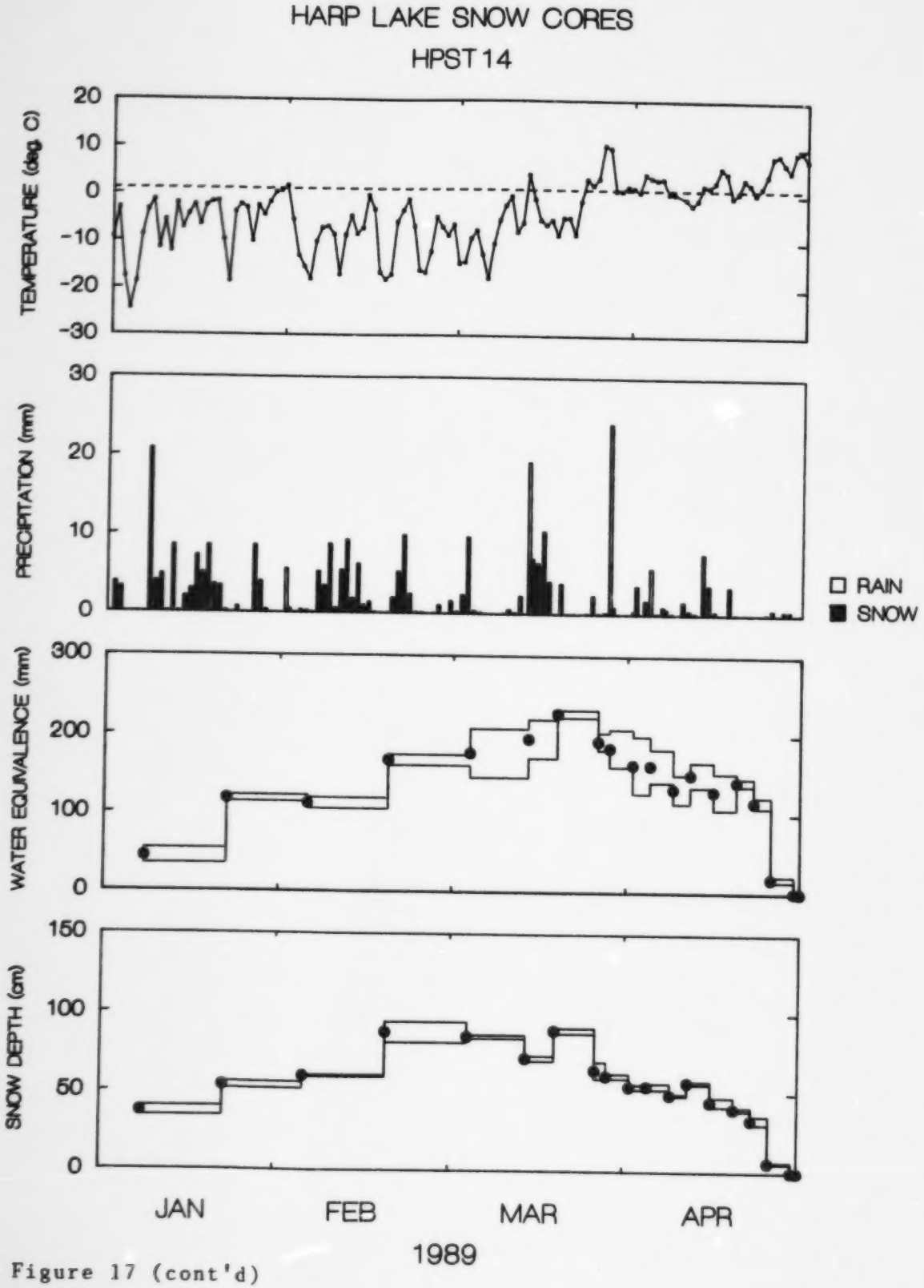

Figure 17 (cont'd)

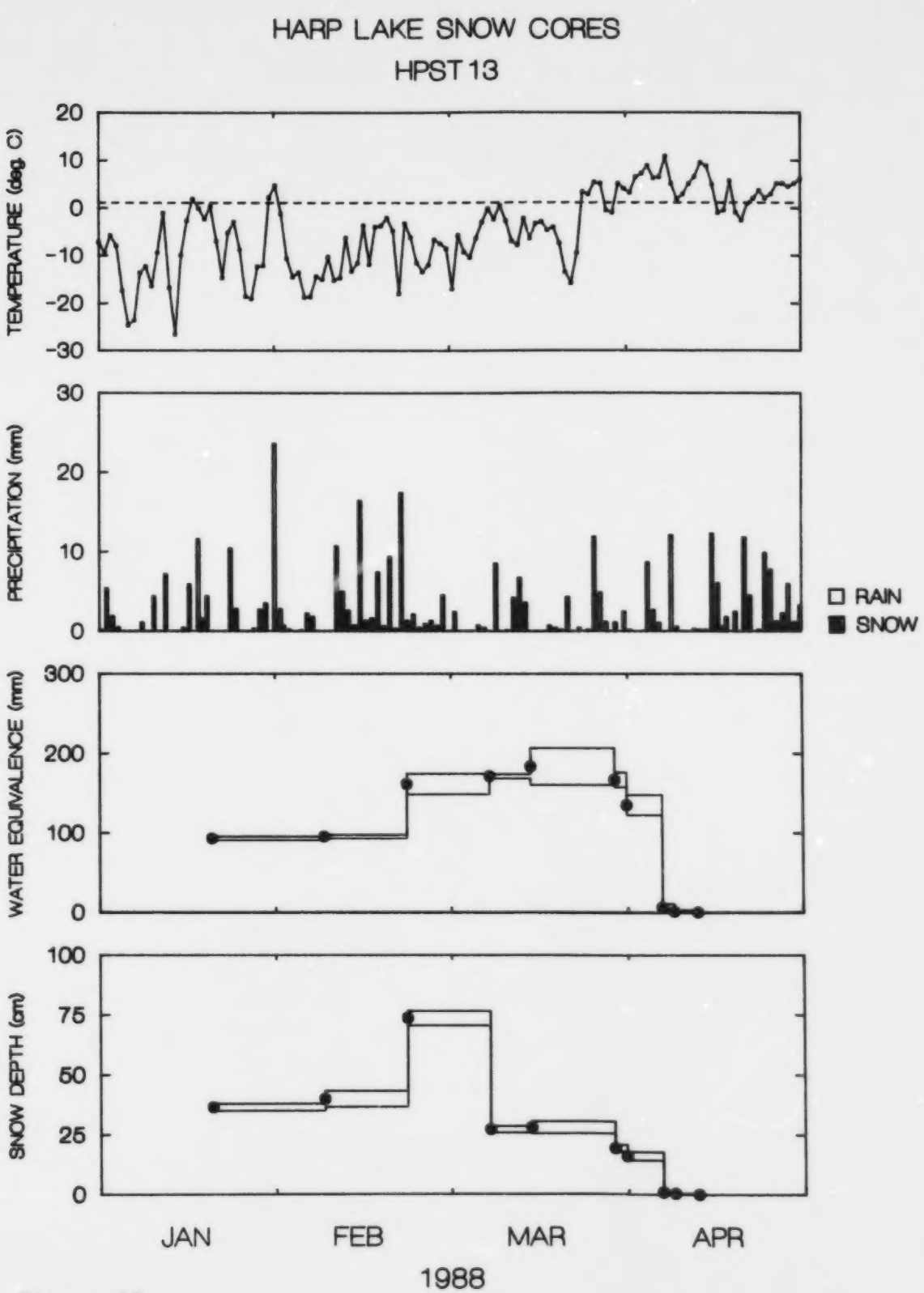
HARP LAKE SNOW CORES
HPST13
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 18

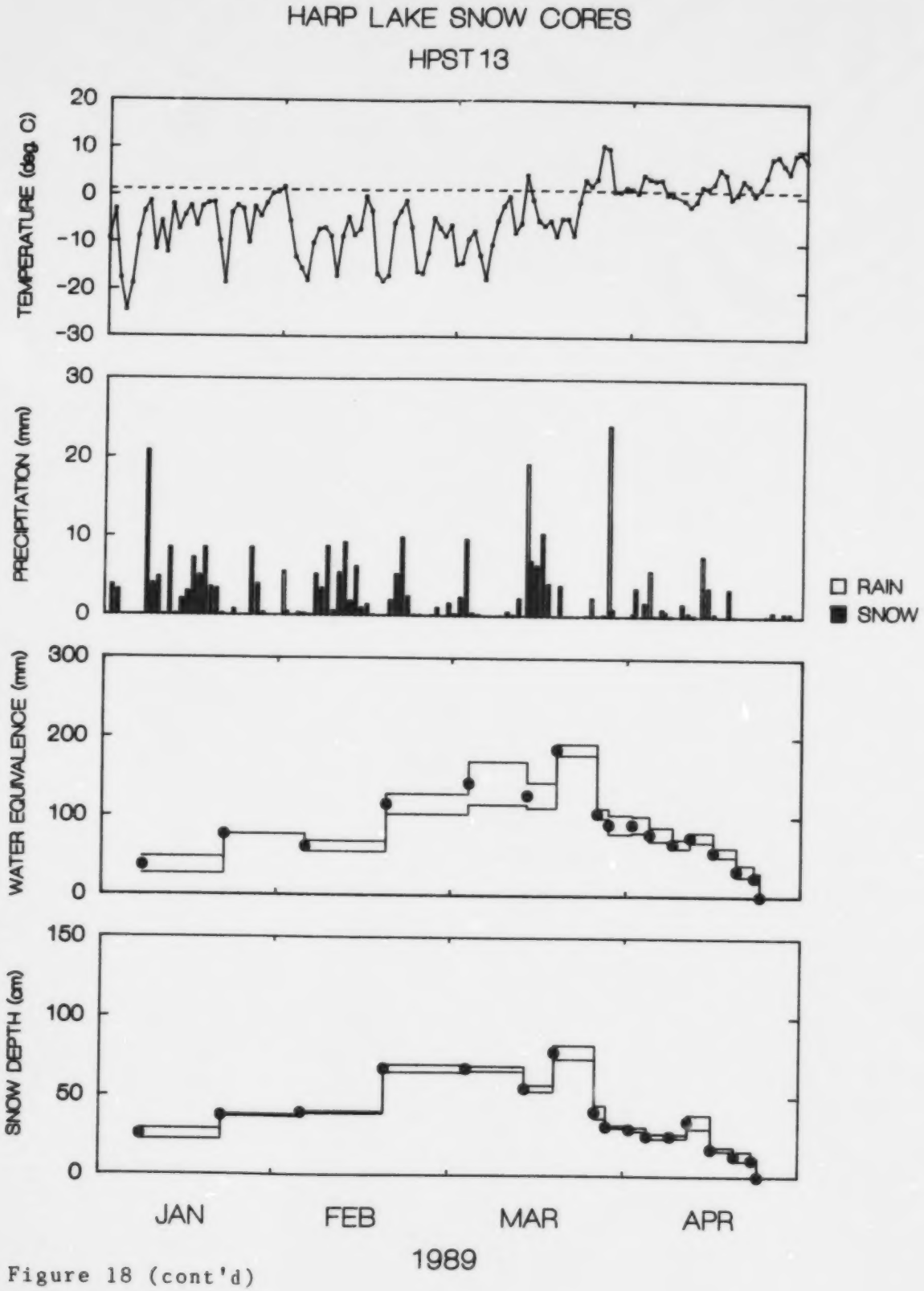

Figure 18 (cont'd)

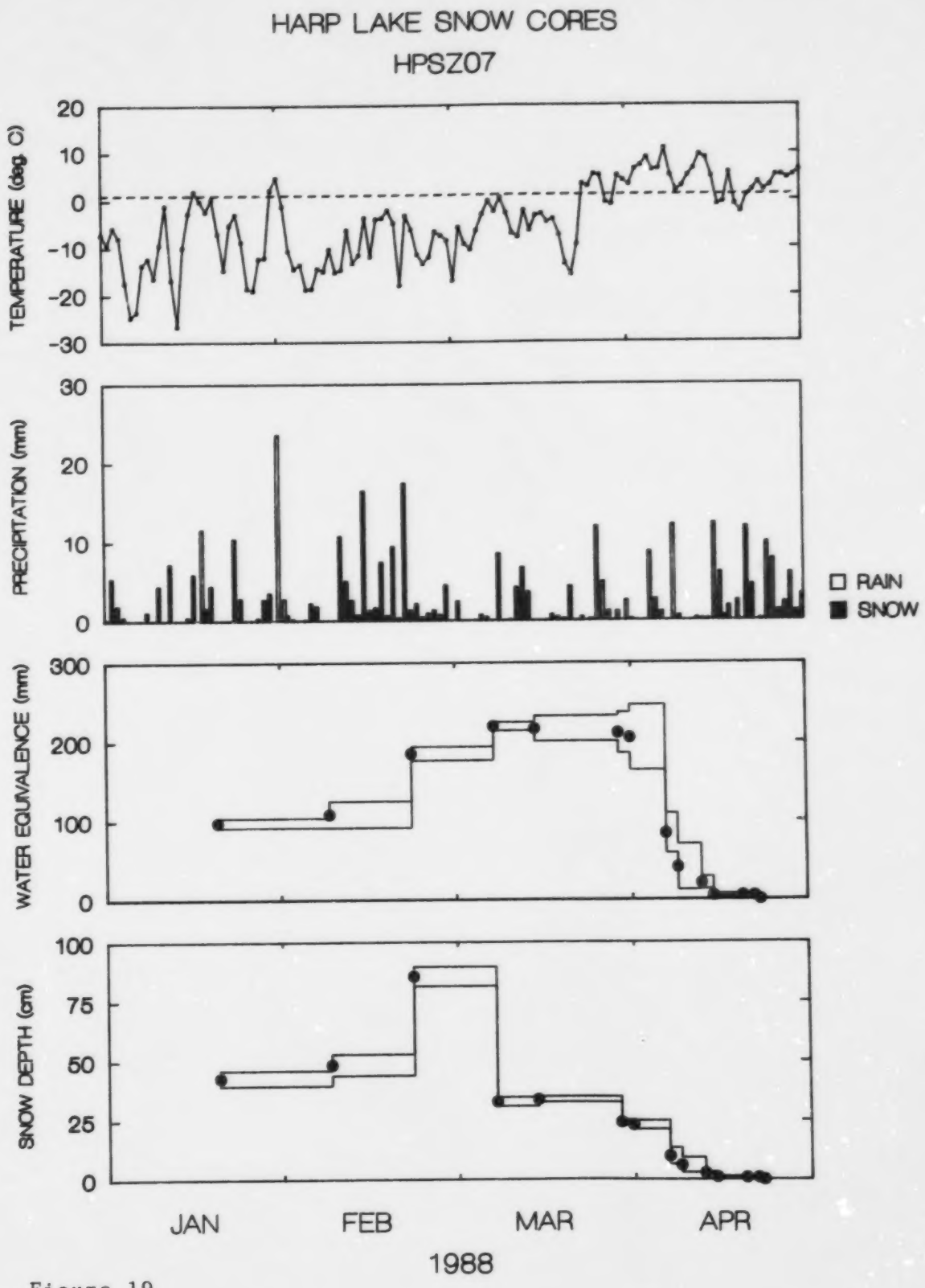
HARP LAKE SNOW CORES
HPSZ07
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 19

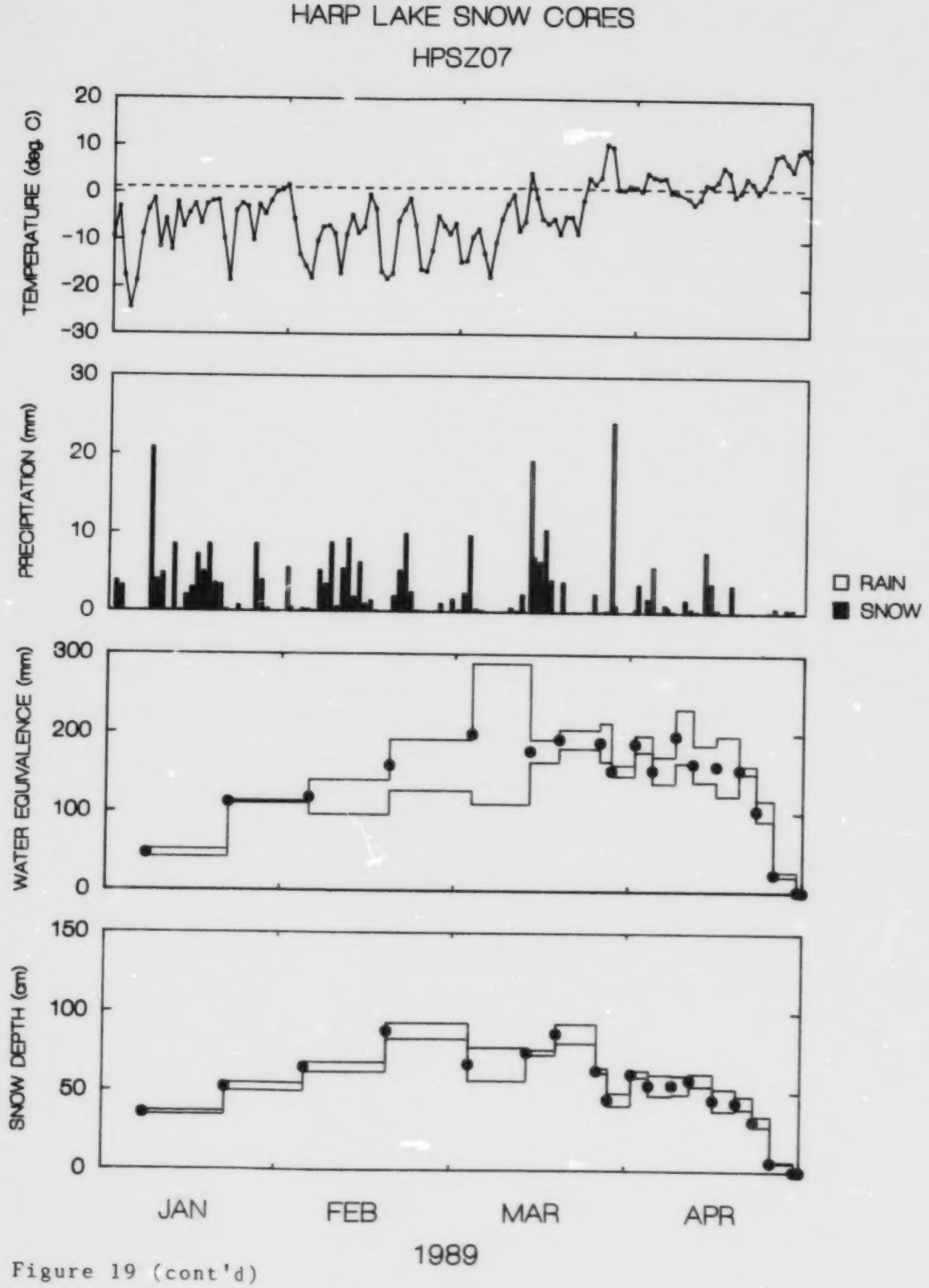

Figure 19 (cont'd)

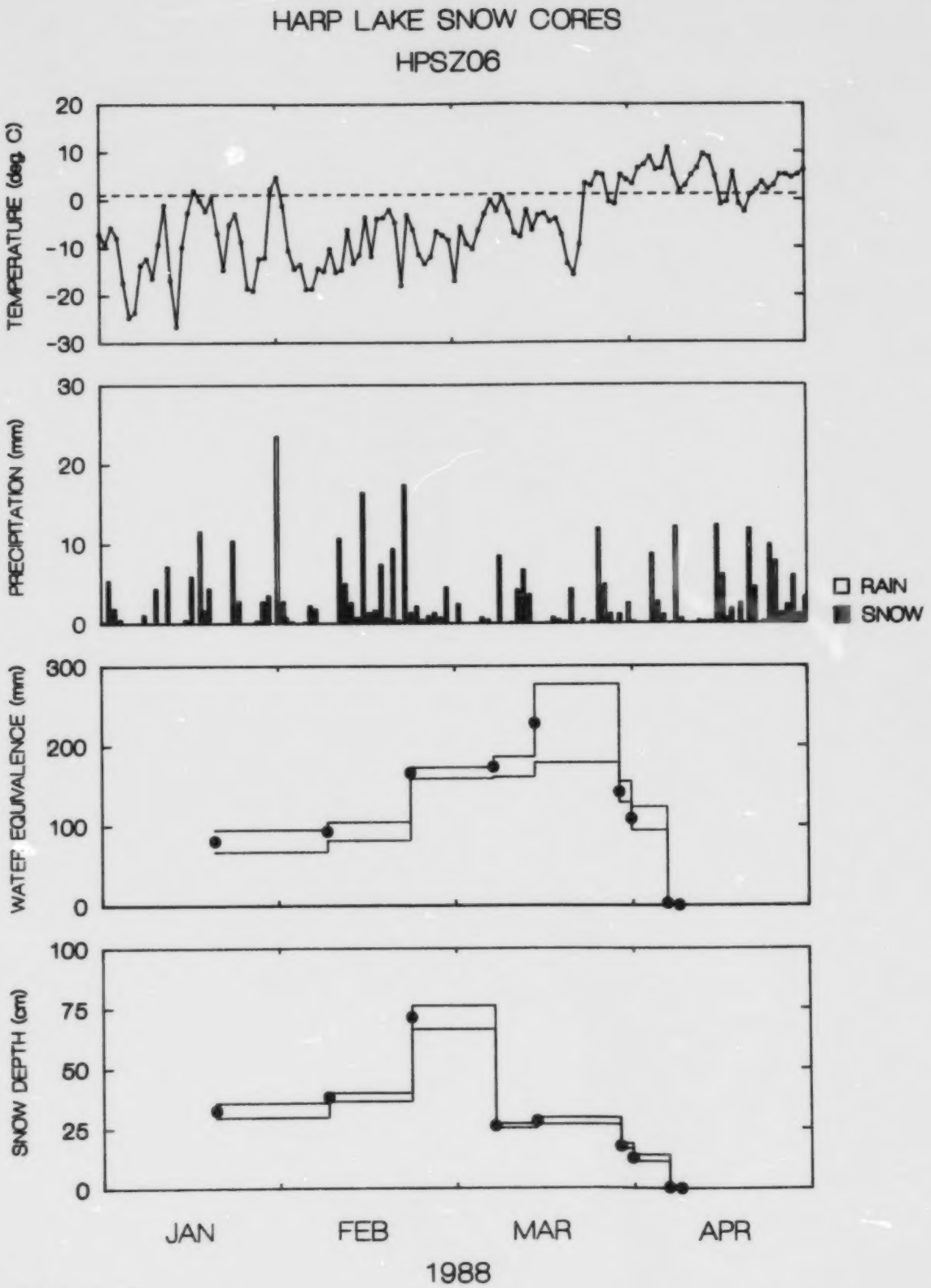
HARP LAKE SNOW CORES
HPSZ06
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 20

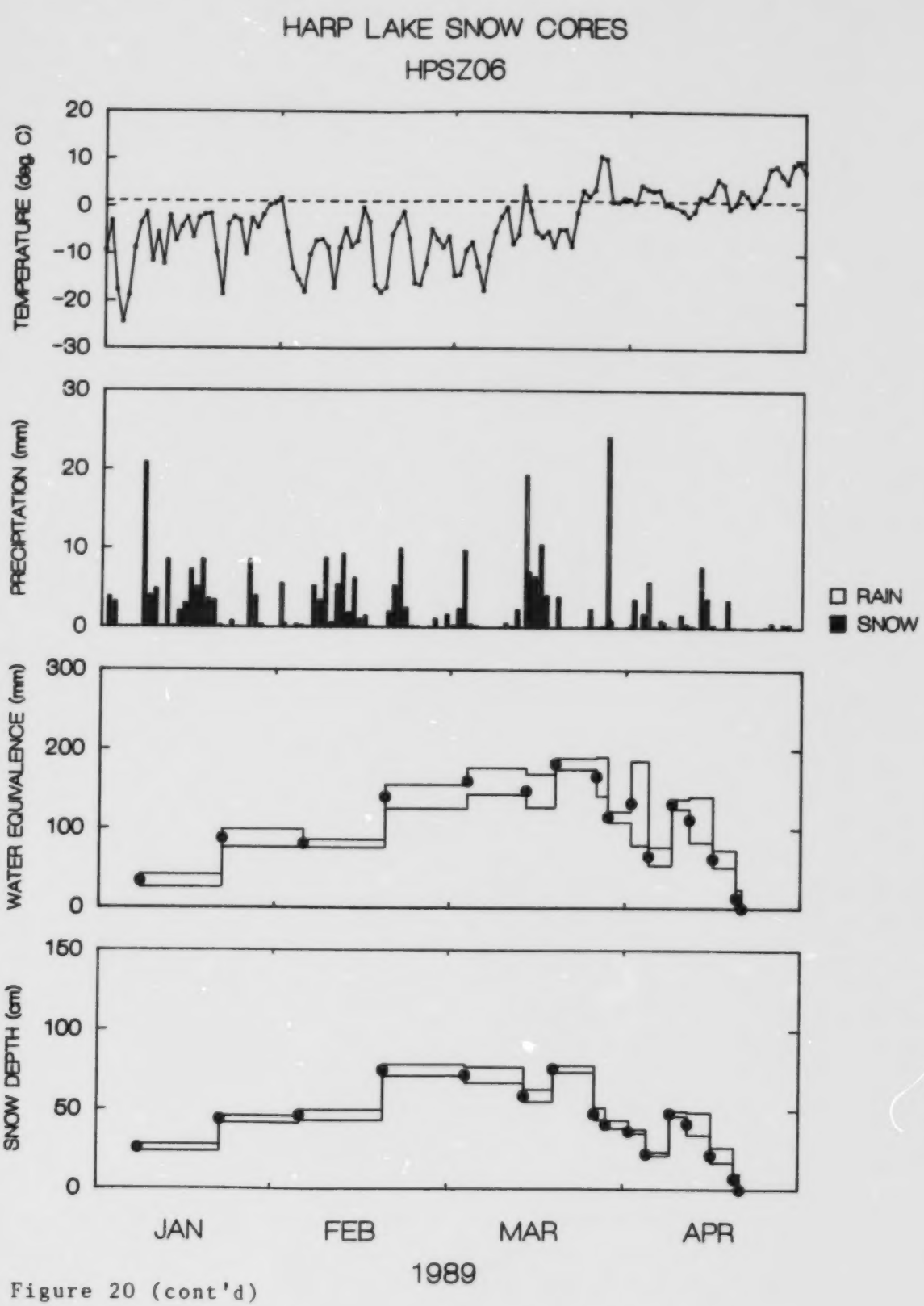

Figure 20 (cont'd)

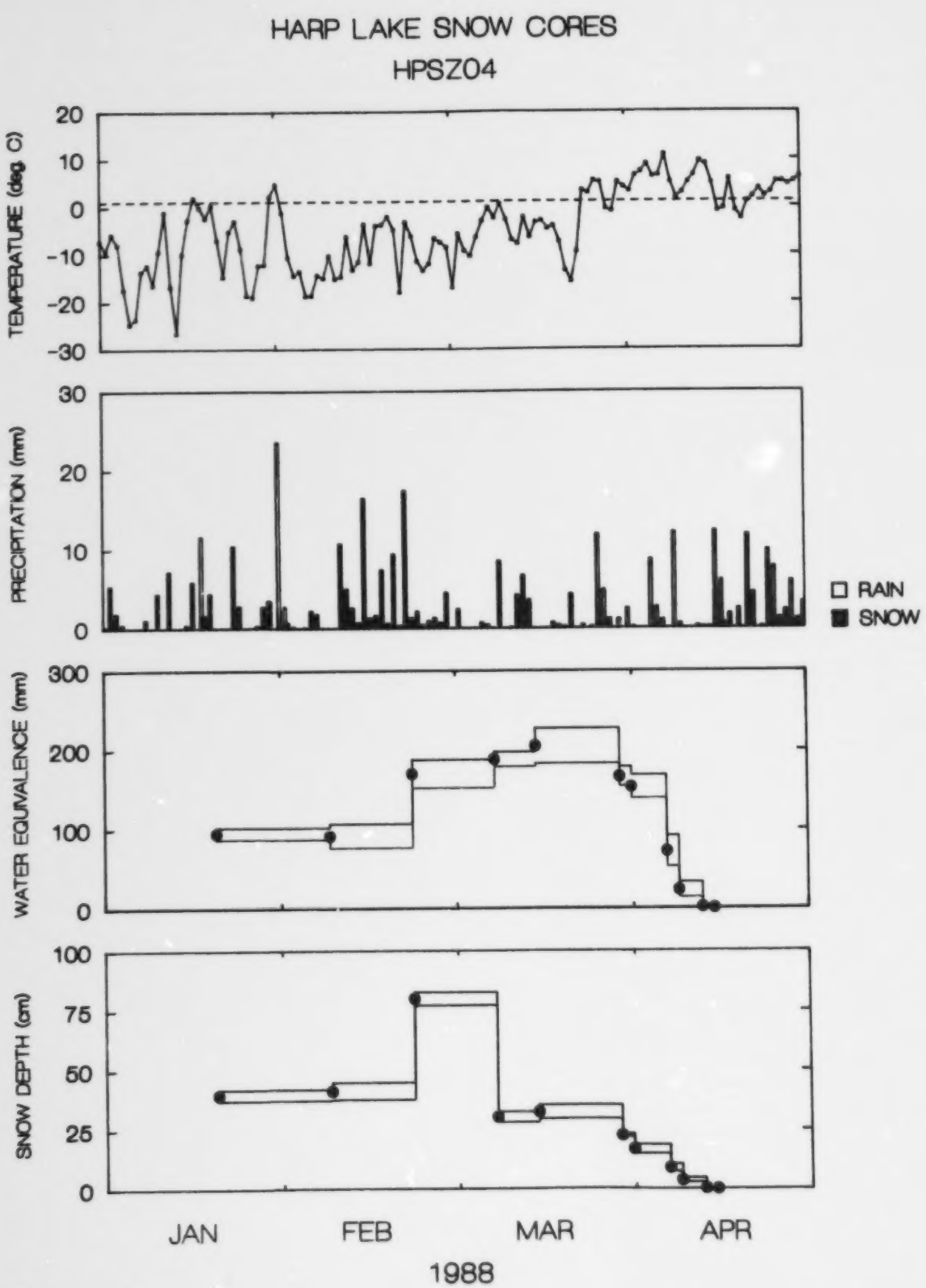
HARP LAKE SNOW CORES
HPSZ04
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 21

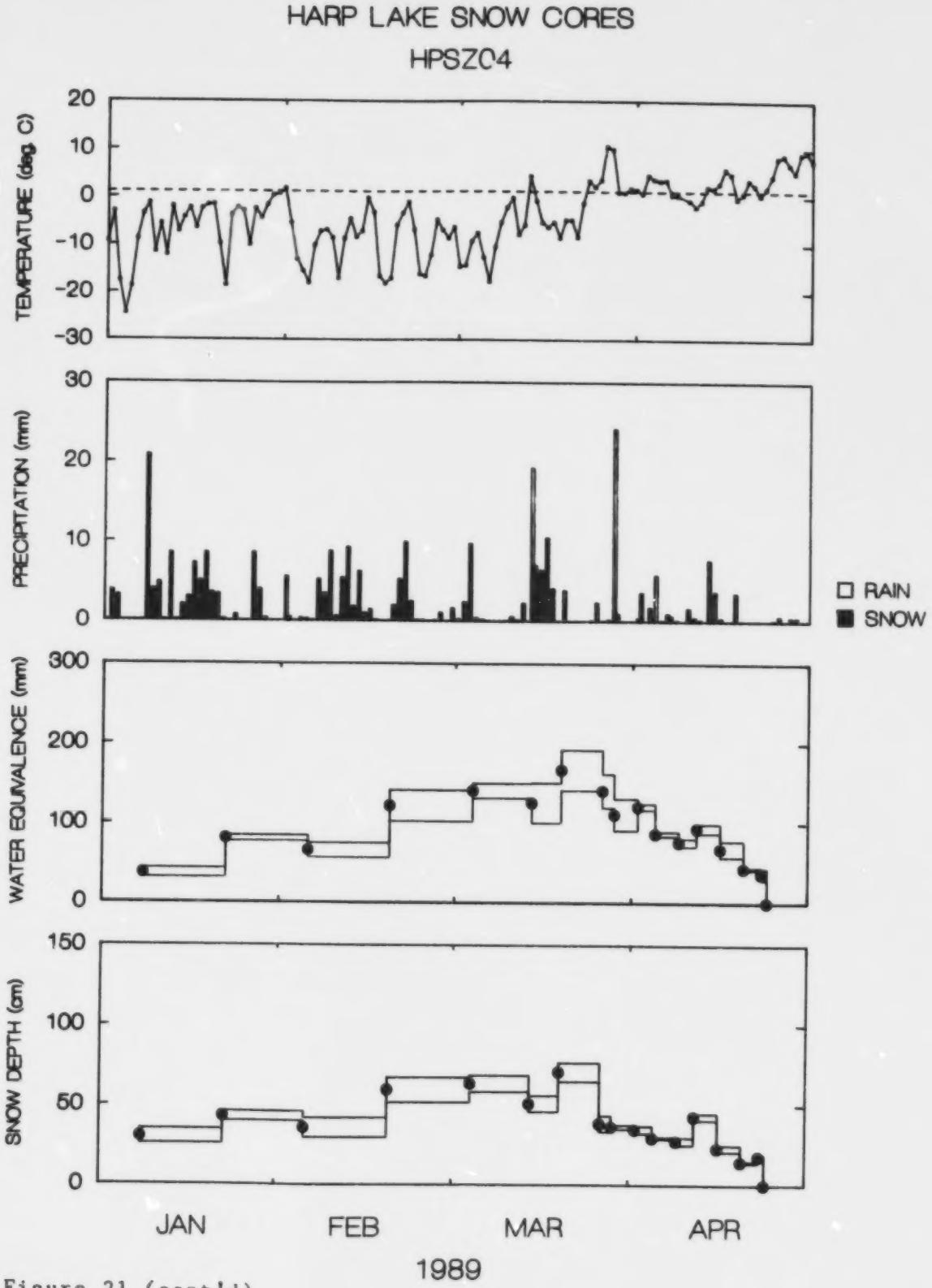

Figure 21 (cont'd)

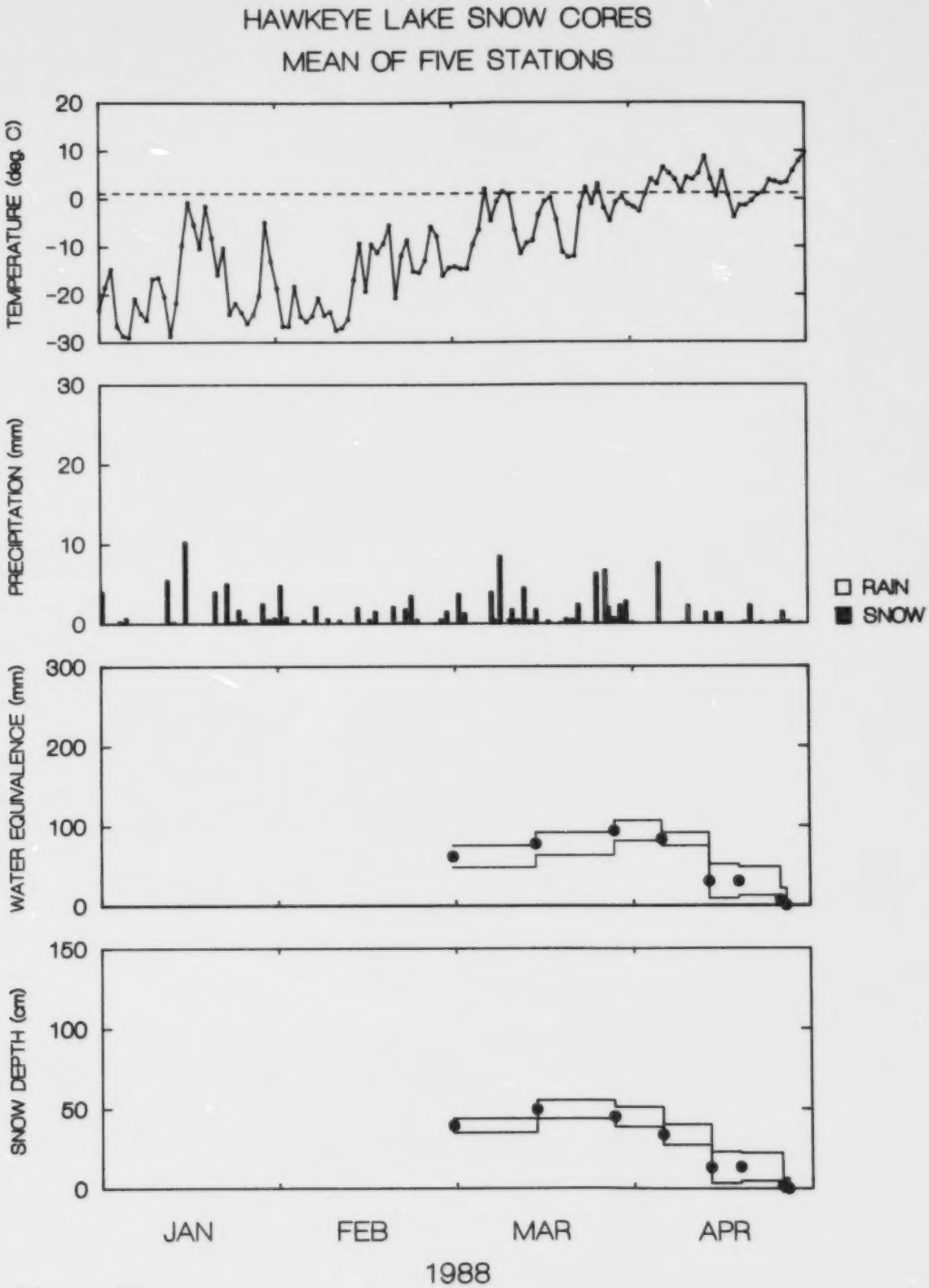
HAWKEYE LAKE SNOW CORES
MEAN OF FIVE STATIONS
TEMPERATURE (deg. C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
150
100
50
0
JAN
FEB
MAR
APR
1988

Figure 22

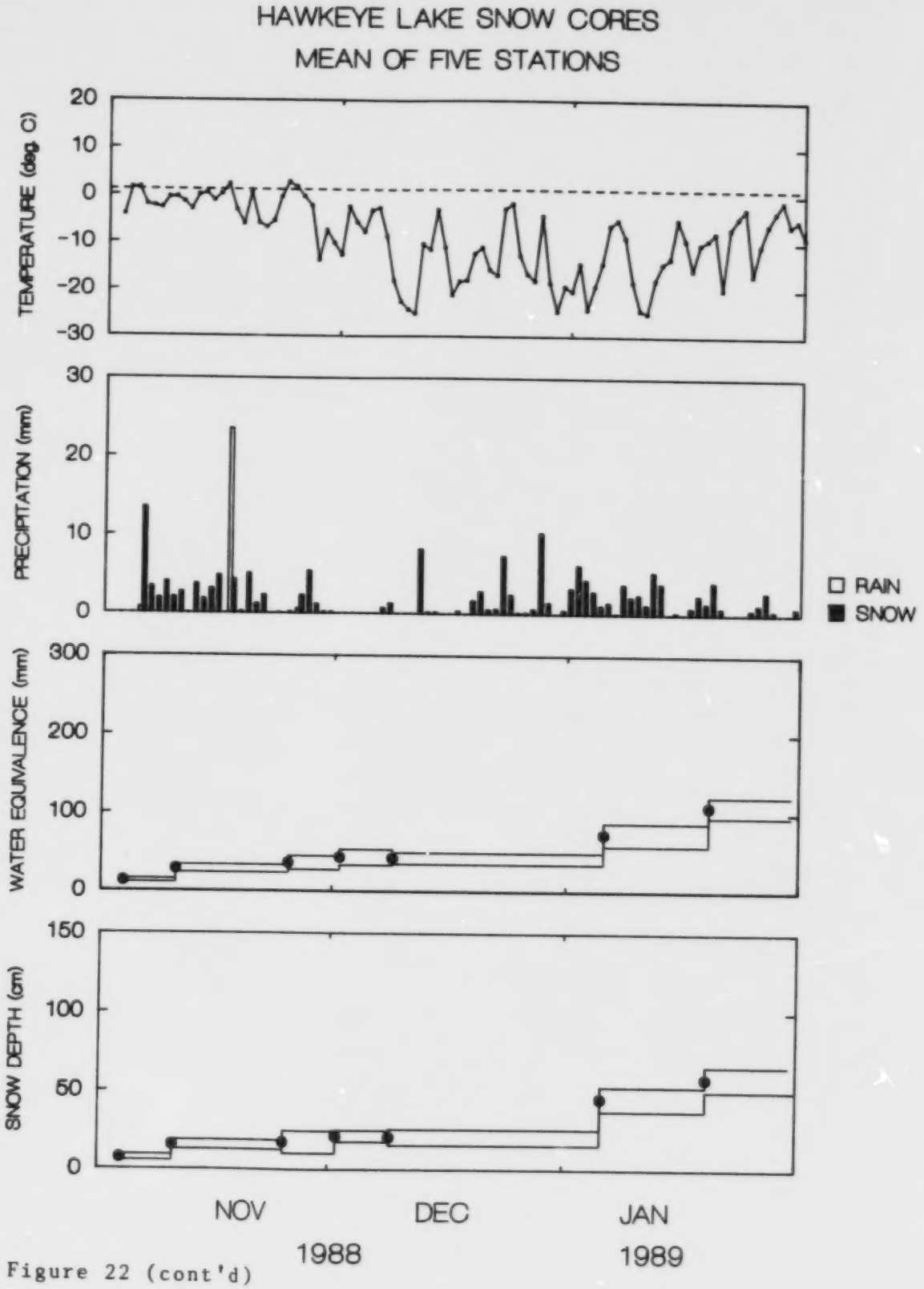

Figure 22 (cont'd)

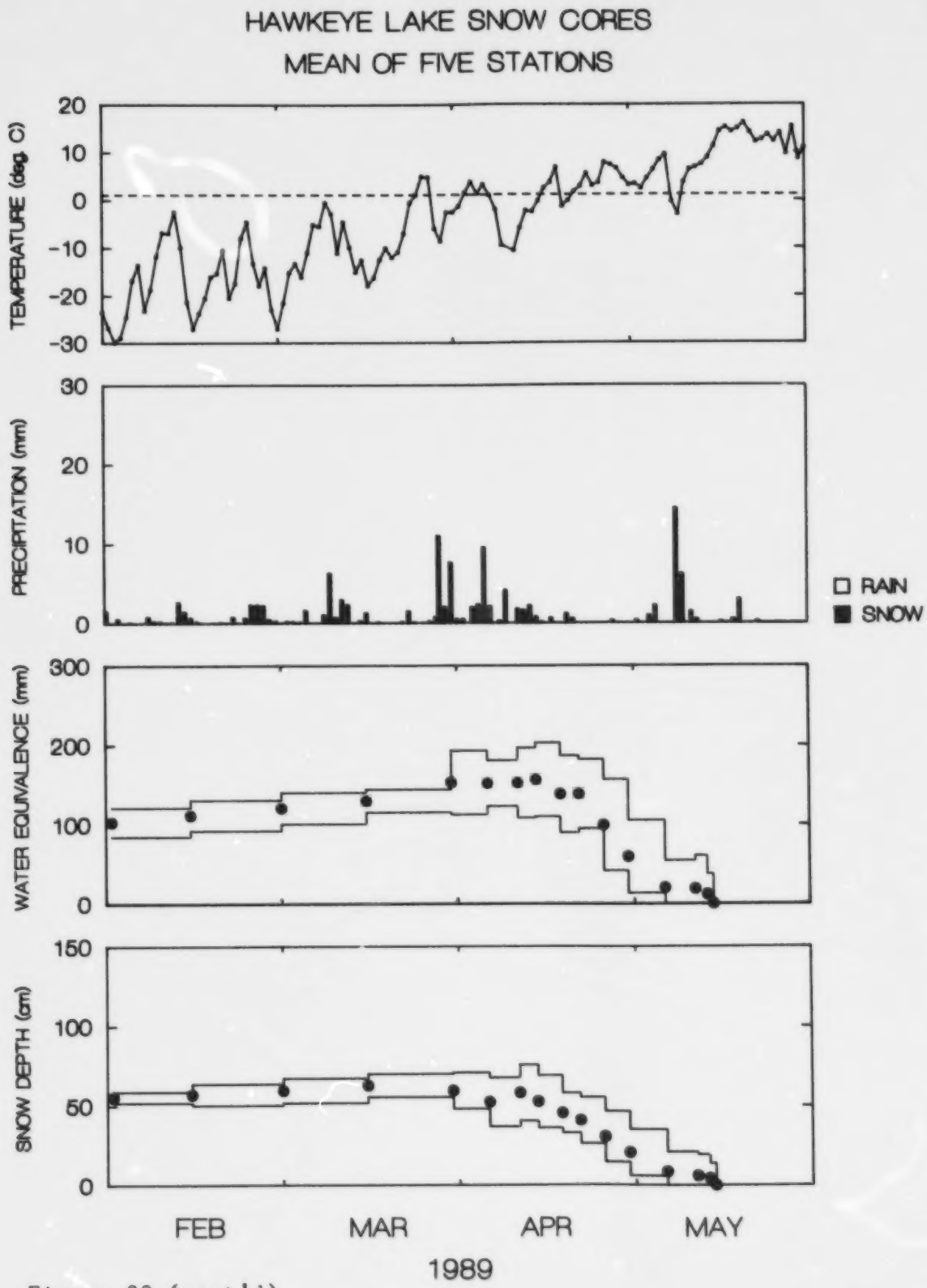

Figure 22 (cont'd)

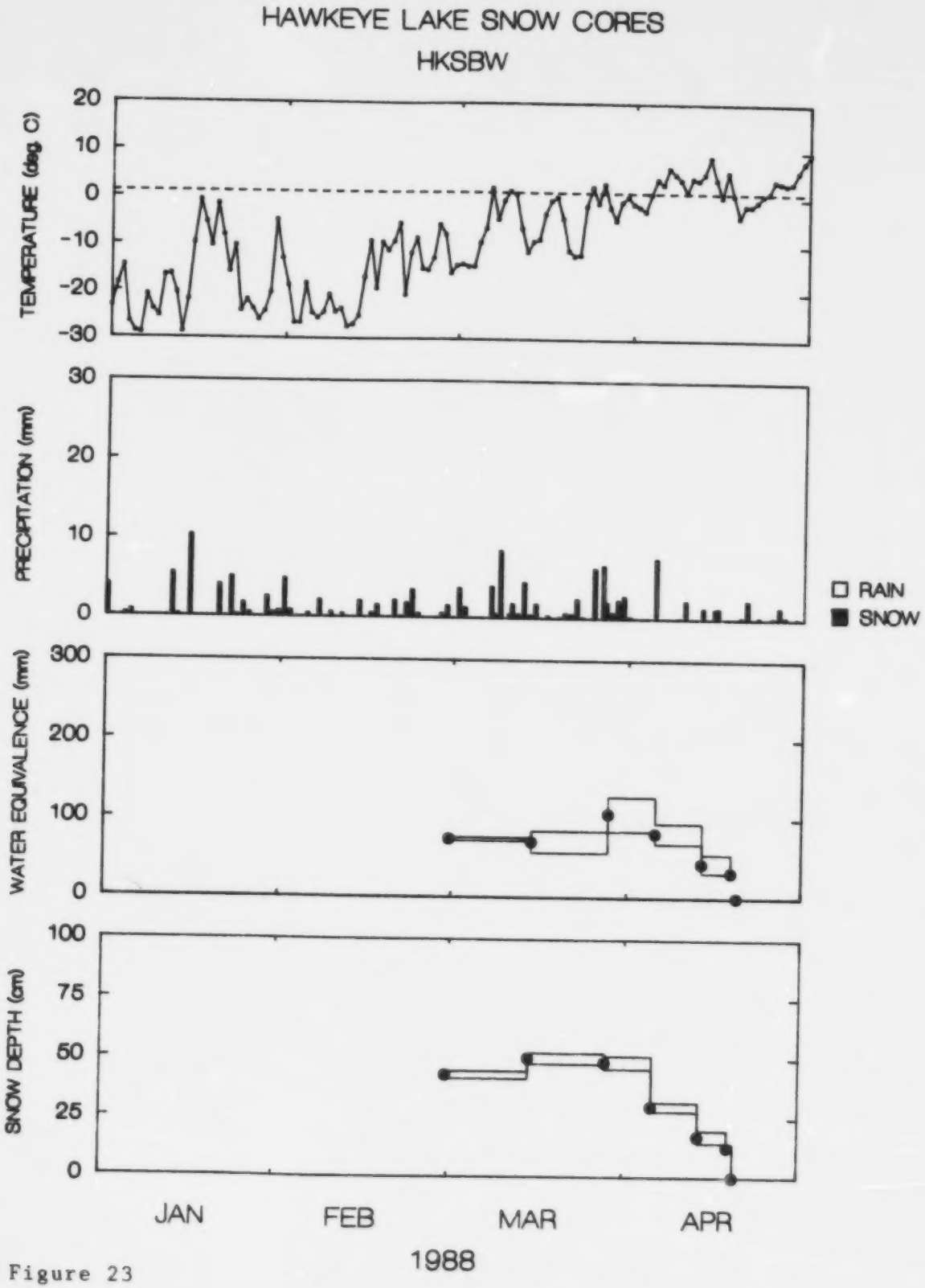
HAWKEYE LAKE SNOW CORES
HKSBW
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 23

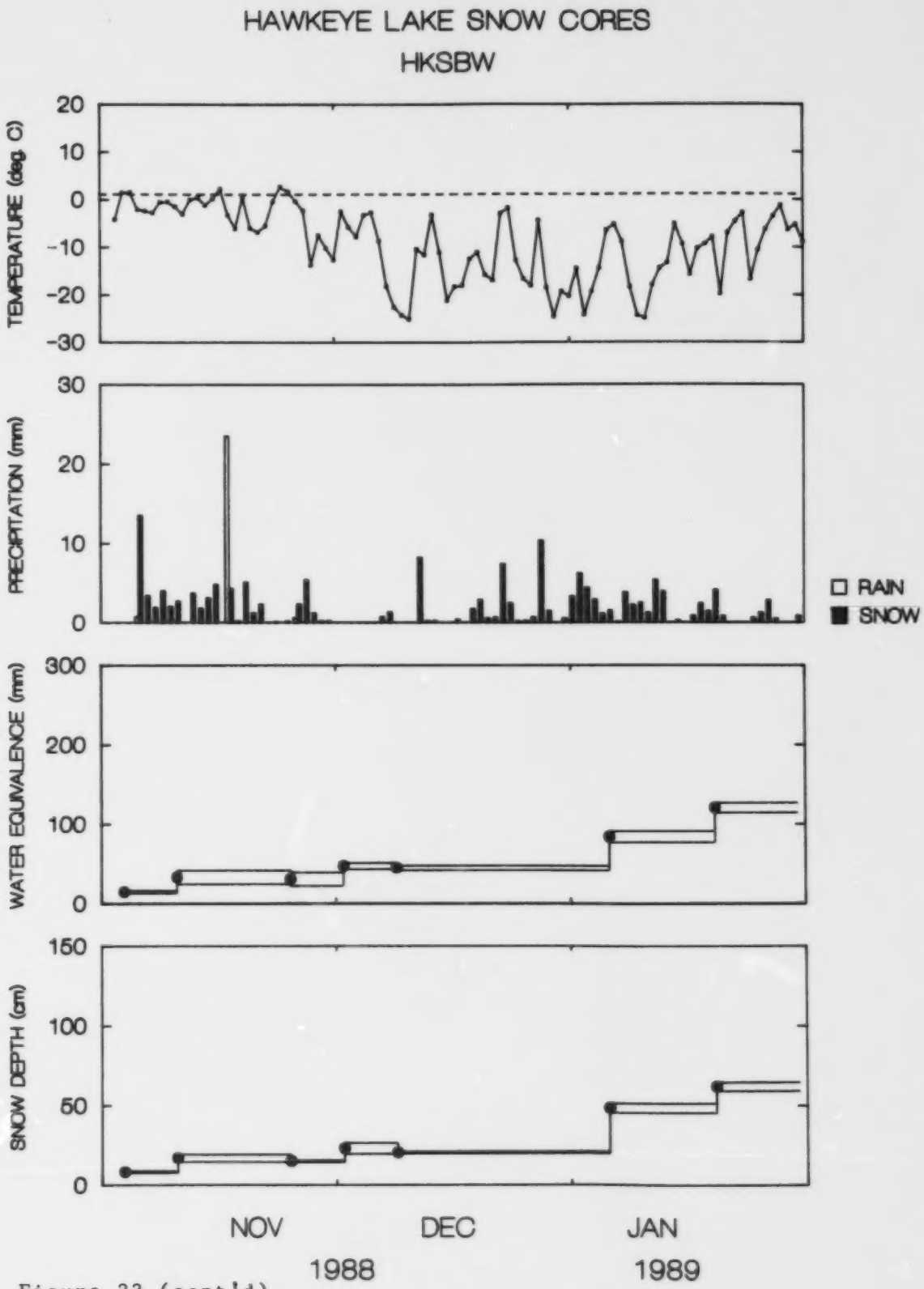

Figure 23 (cont'd)

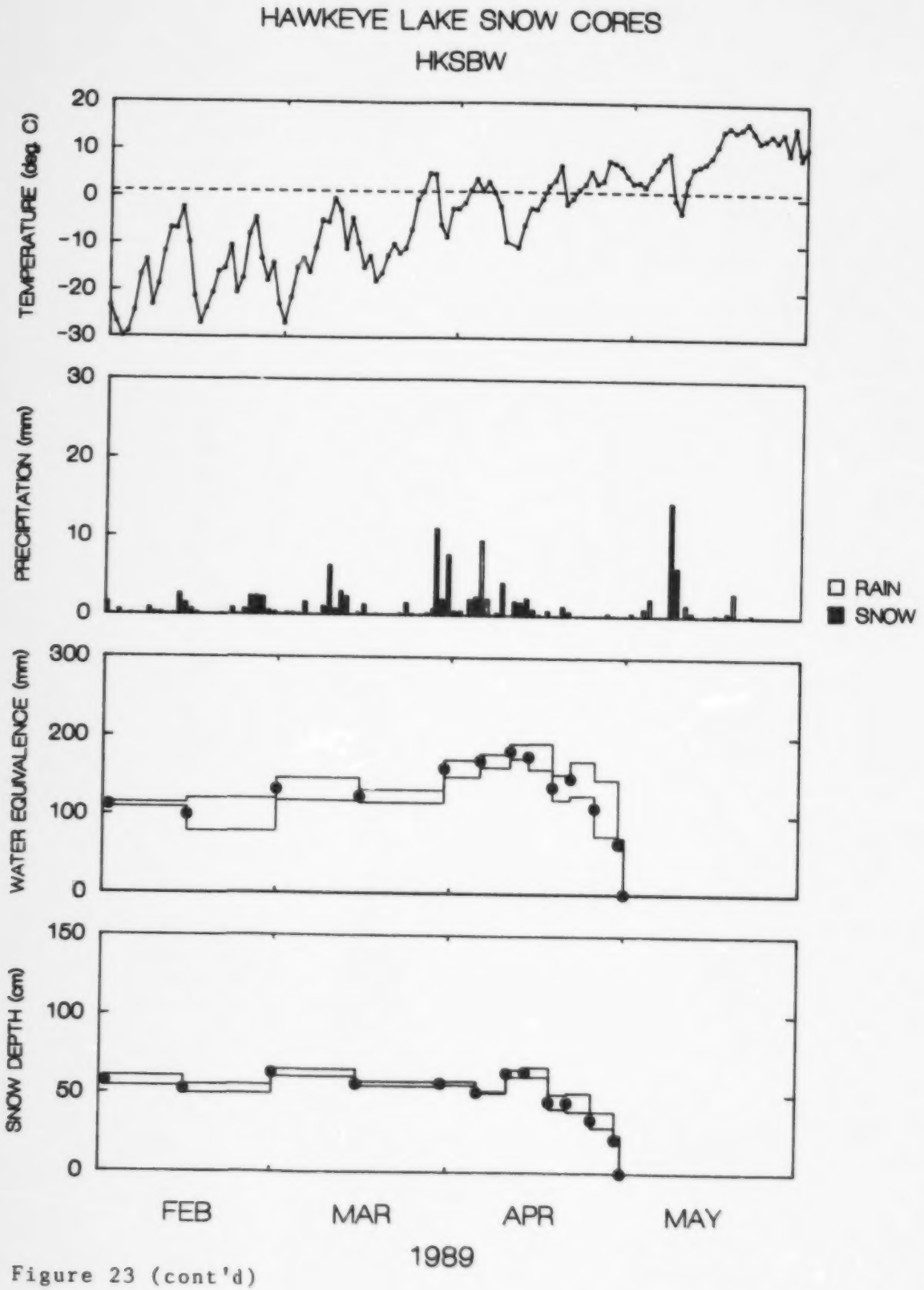

Figure 23 (cont'd)

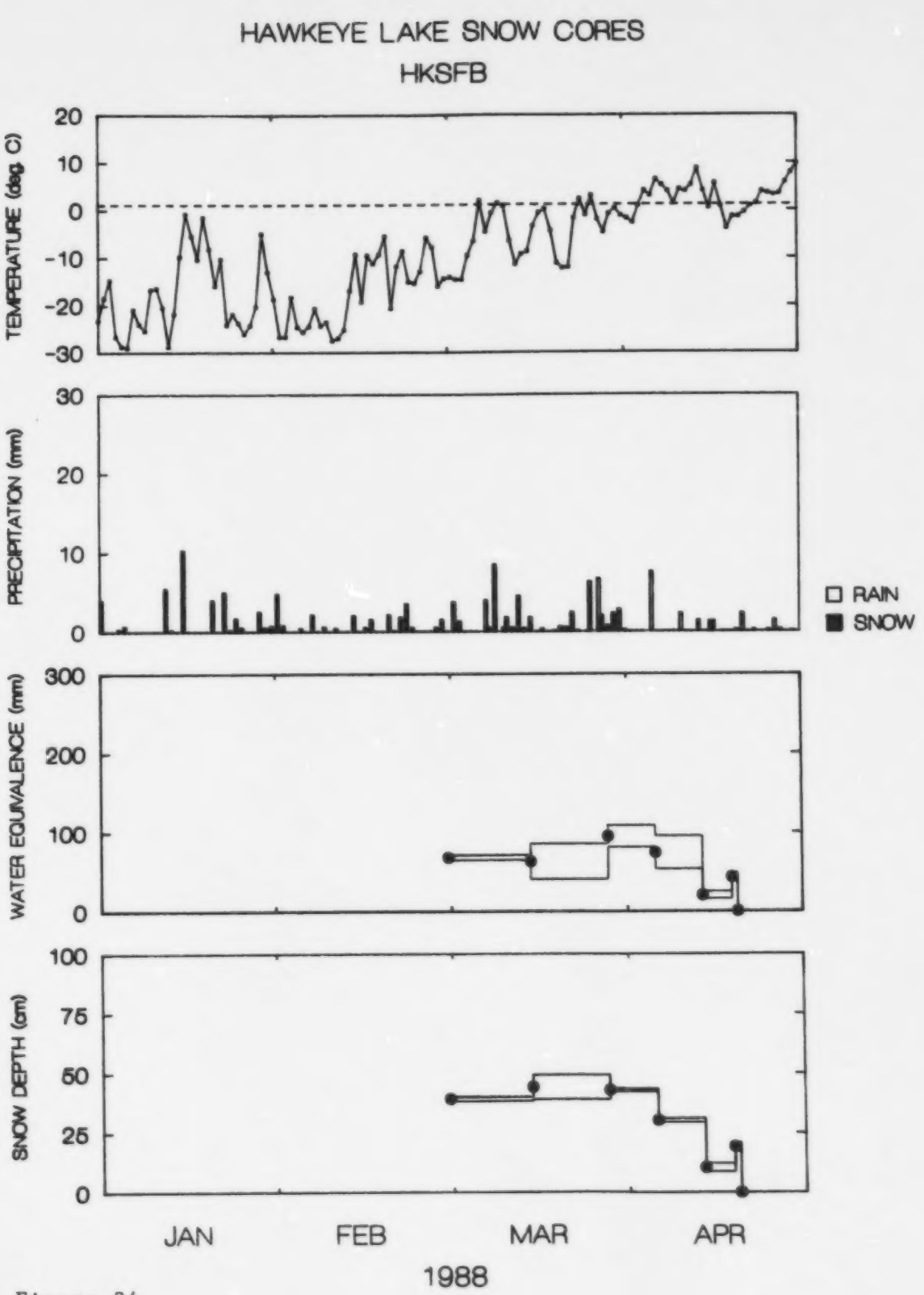
HAWKEYE LAKE SNOW CORES
HKSFB
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 24

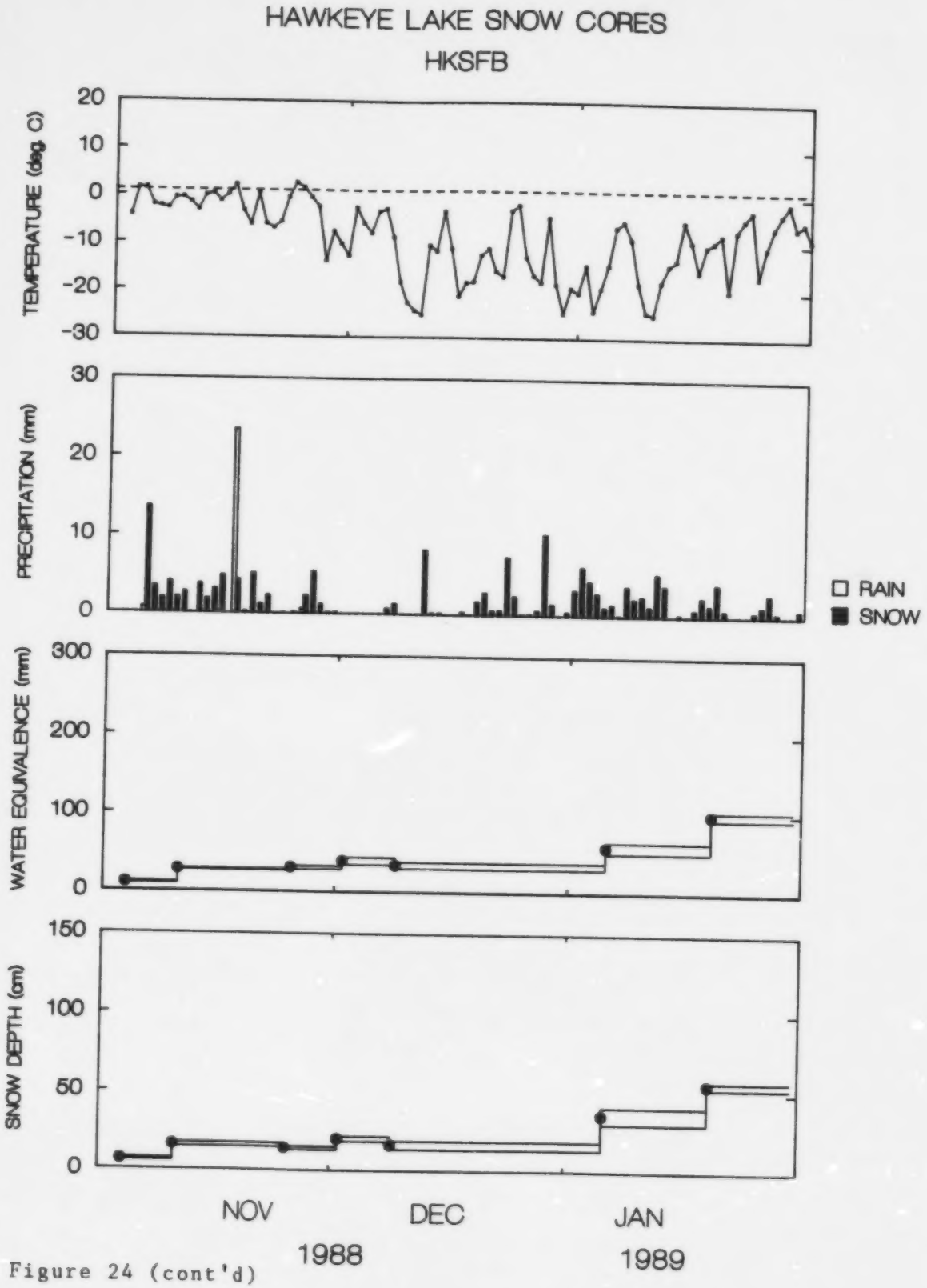

Figure 24 (cont'd)

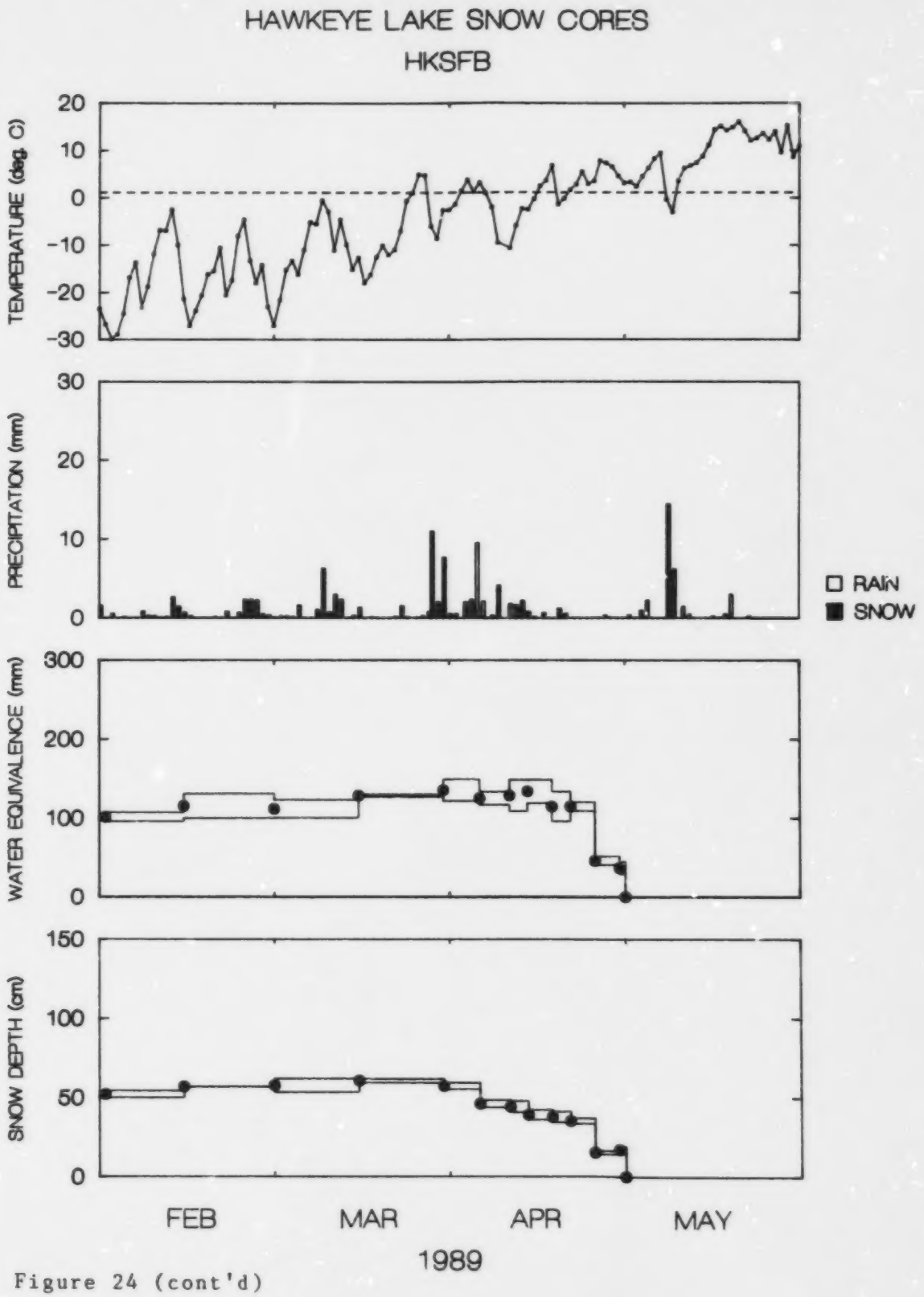

Figure 24 (cont'd)

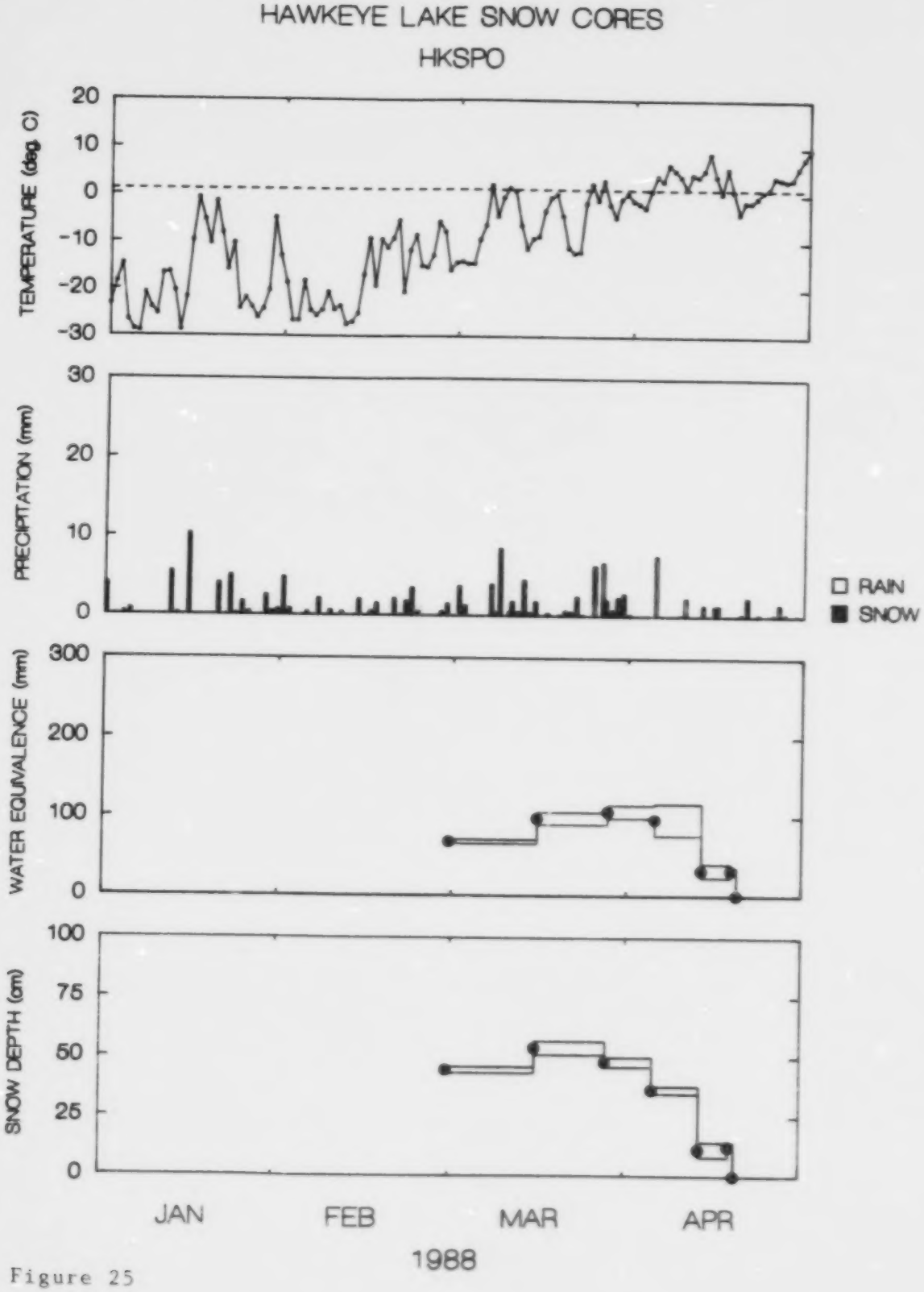
HAWKEYE LAKE SNOW CORES
HKSPO
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 25

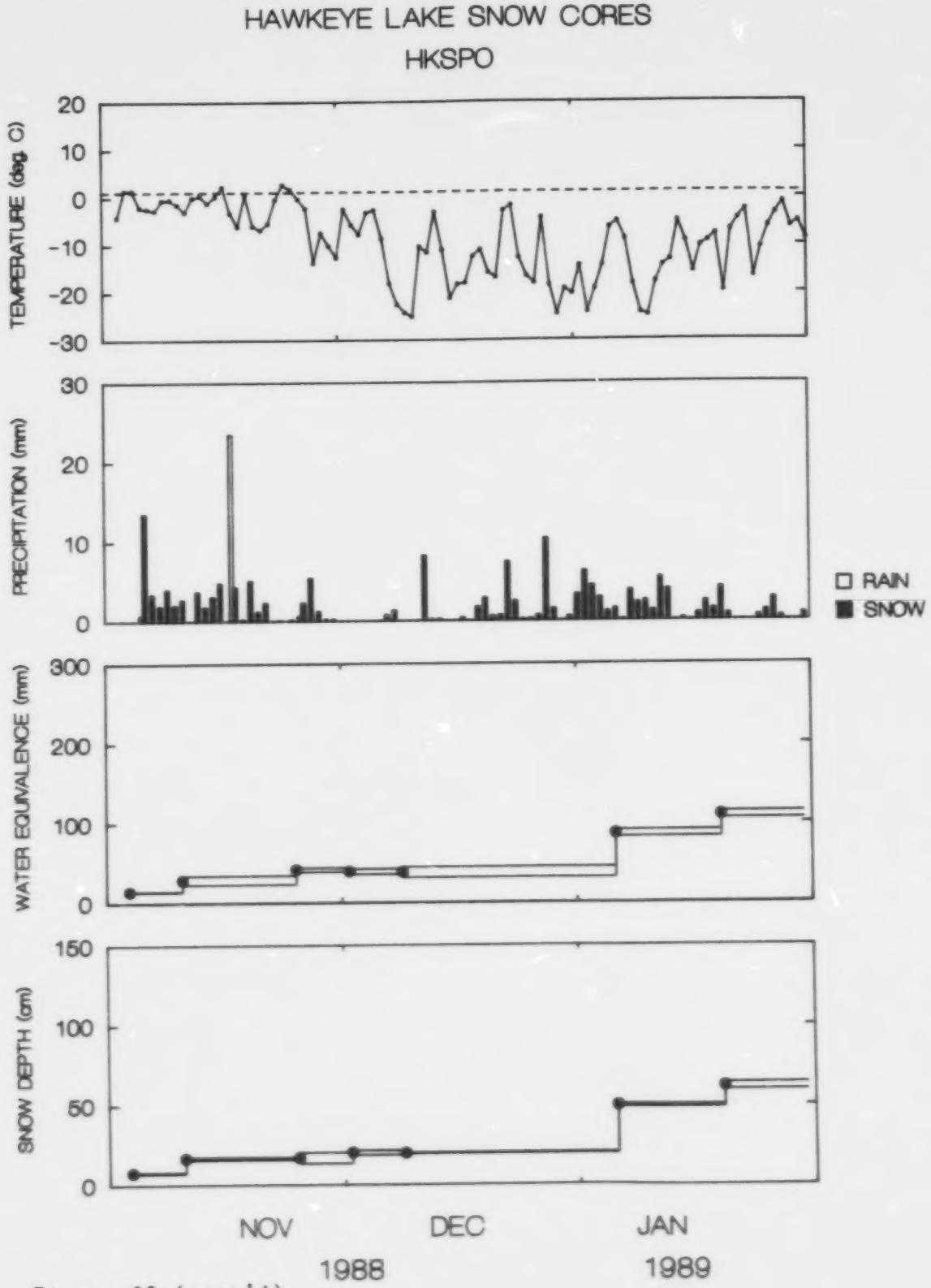

Figure 25 (cont'd)

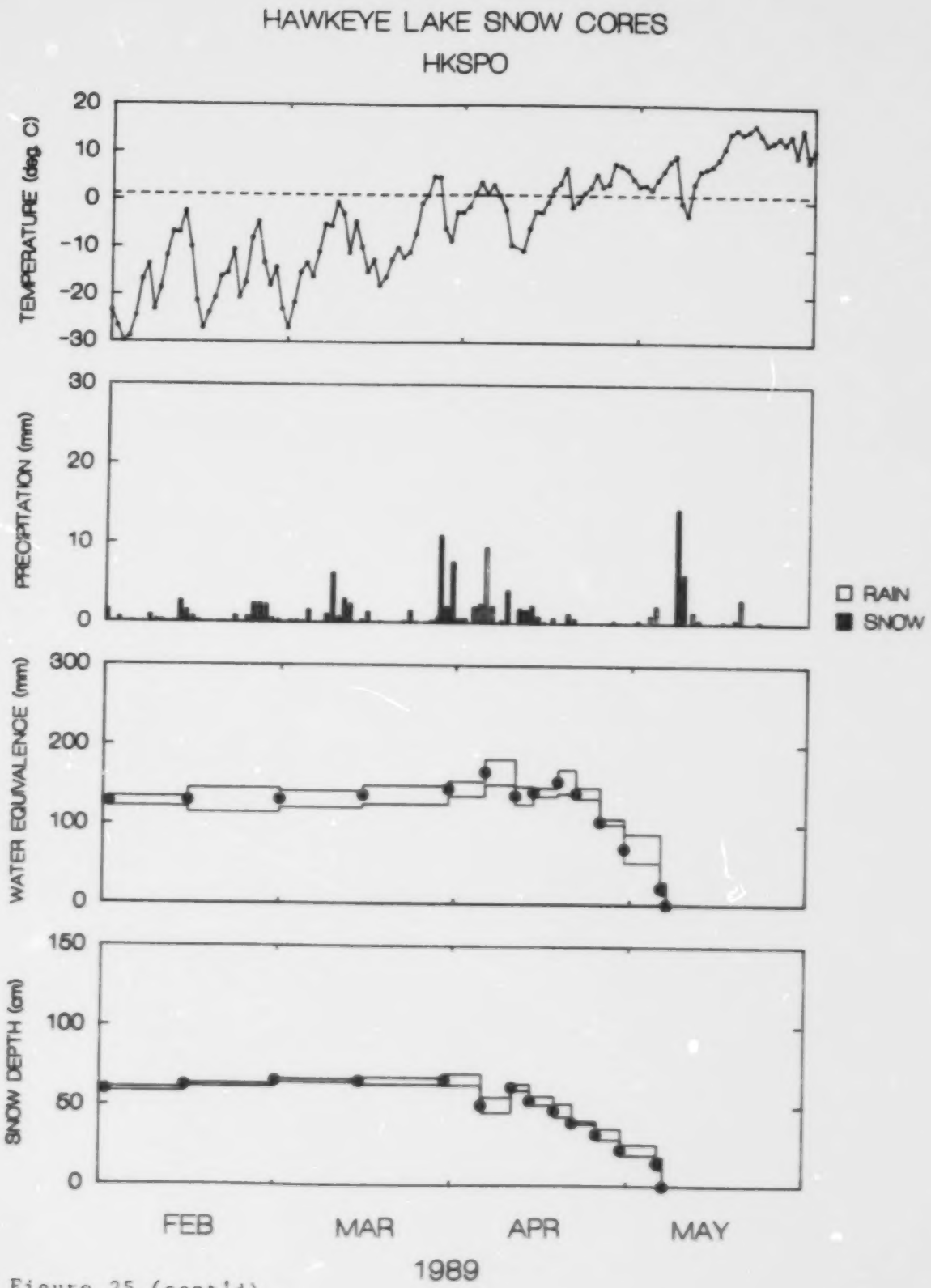

Figure 25 (cont'd)

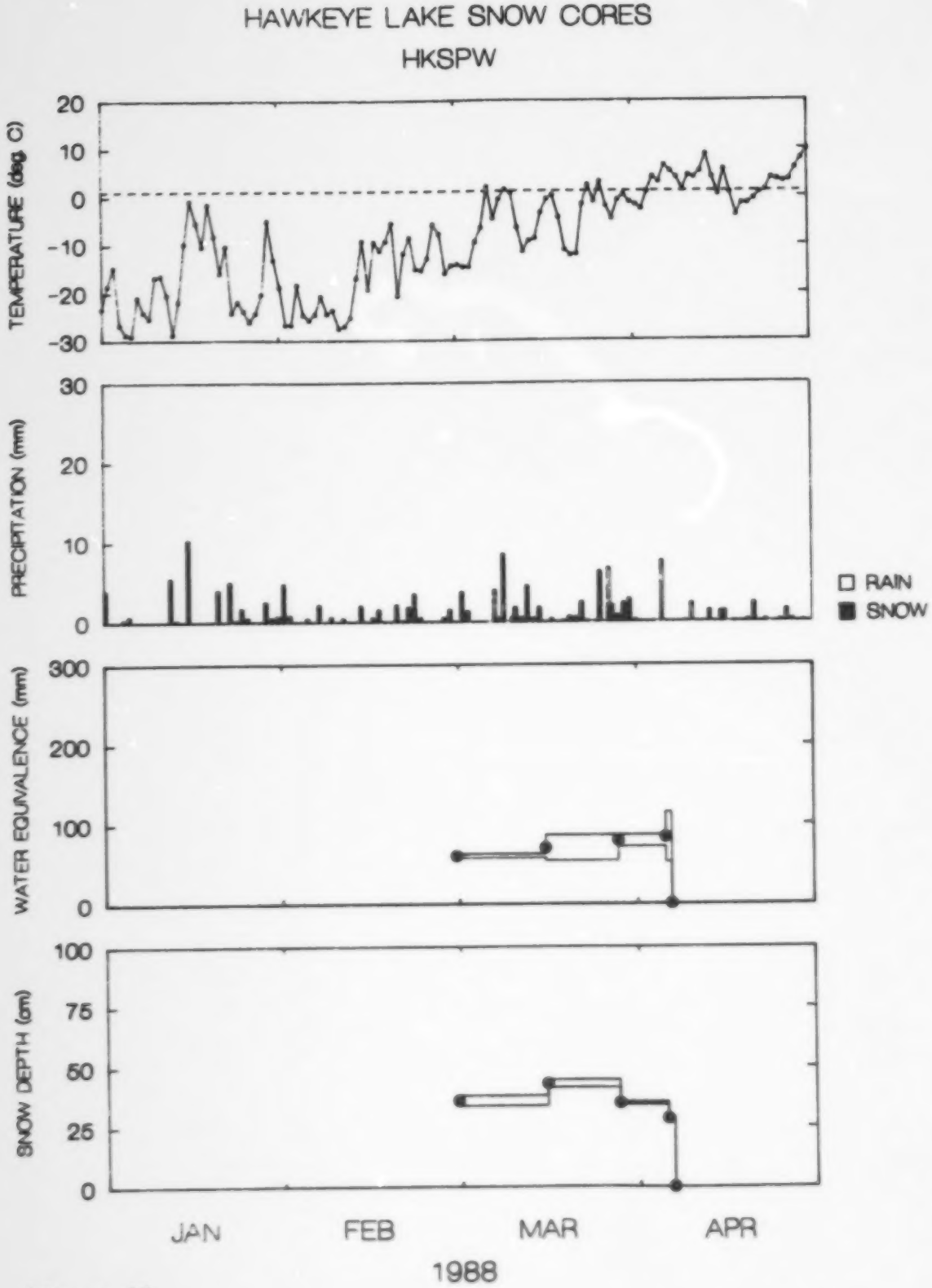
HAWKEYE LAKE SNOW CORES
HKSPW
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 26

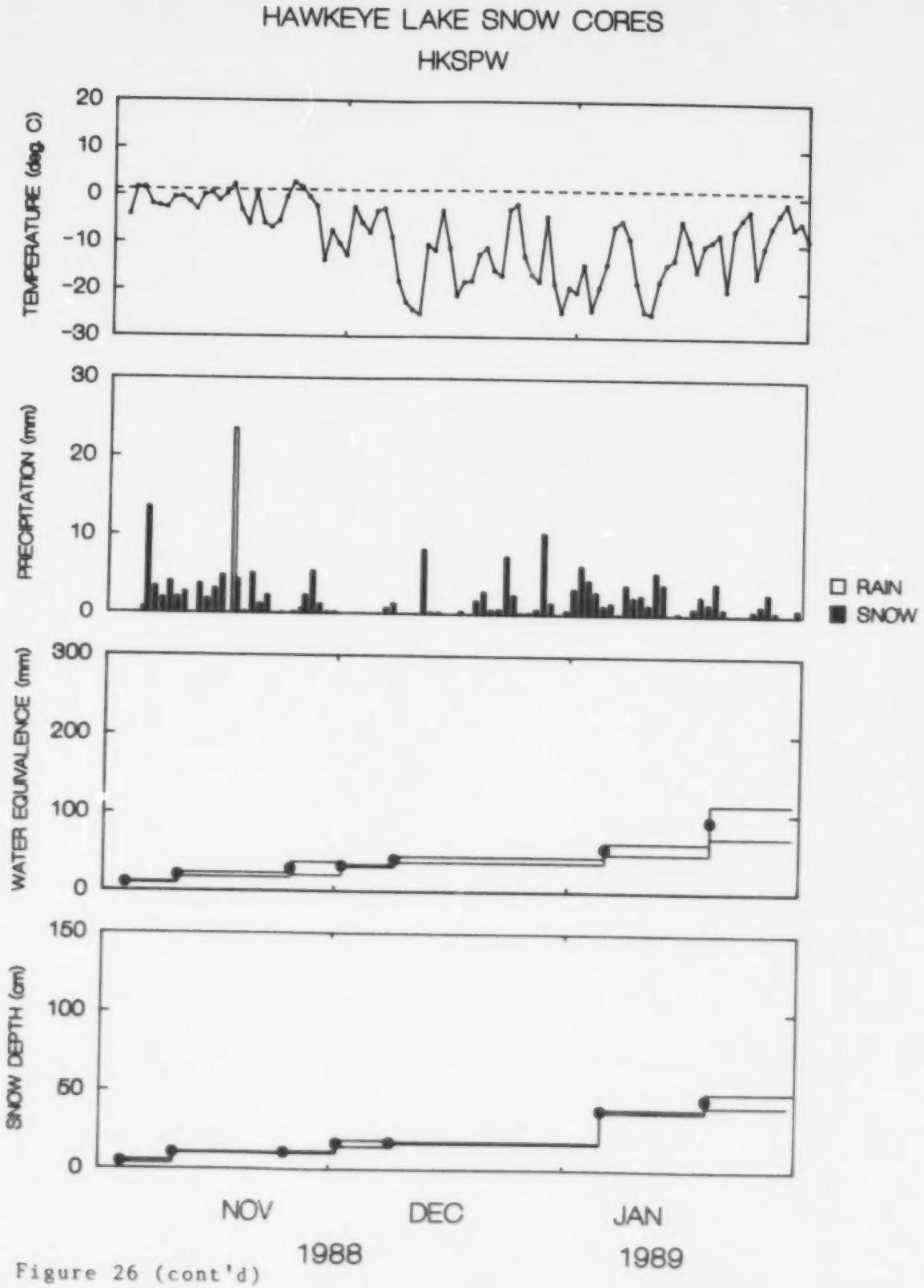

Figure 26 (cont'd)

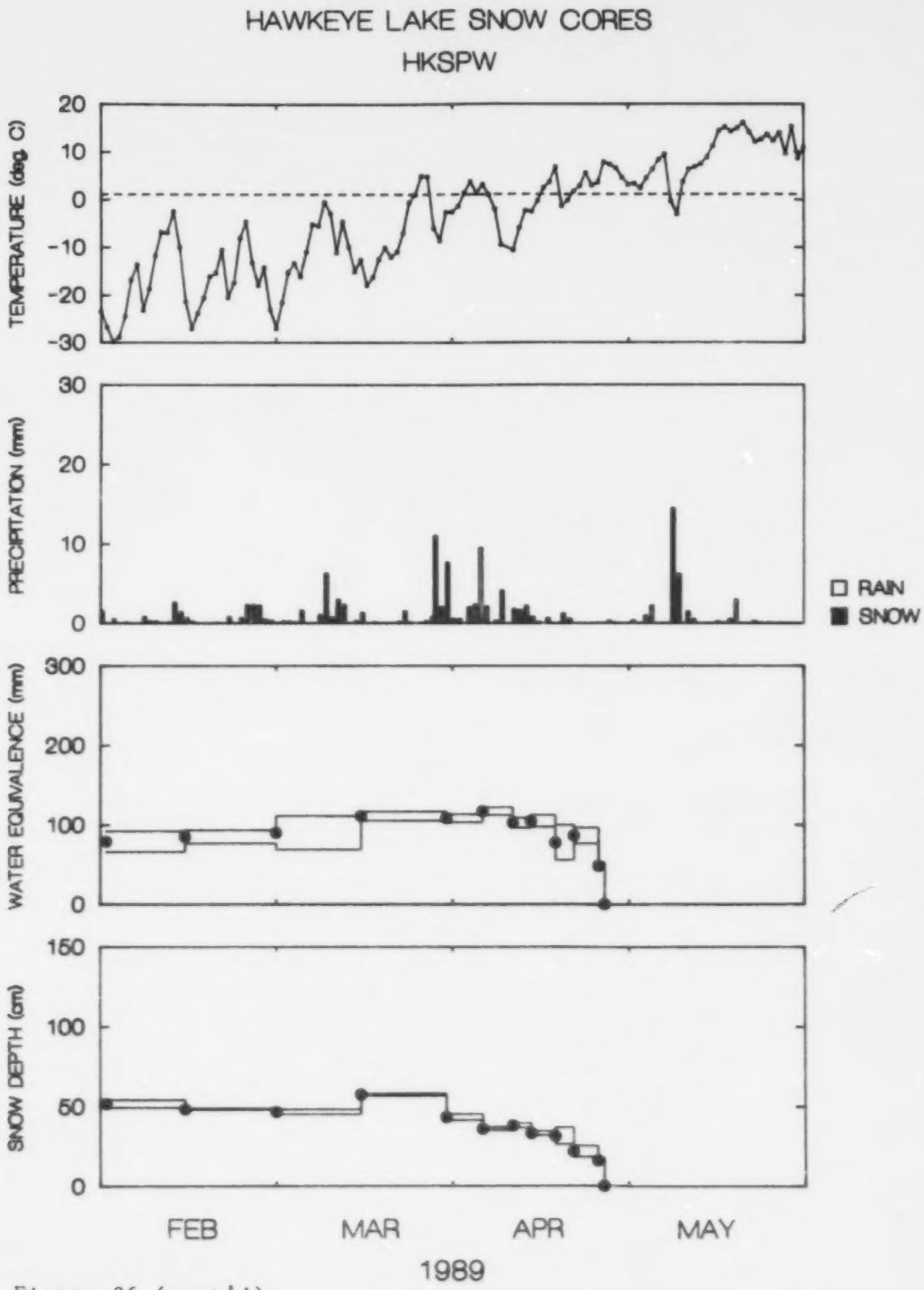

Figure 26 (cont'd)

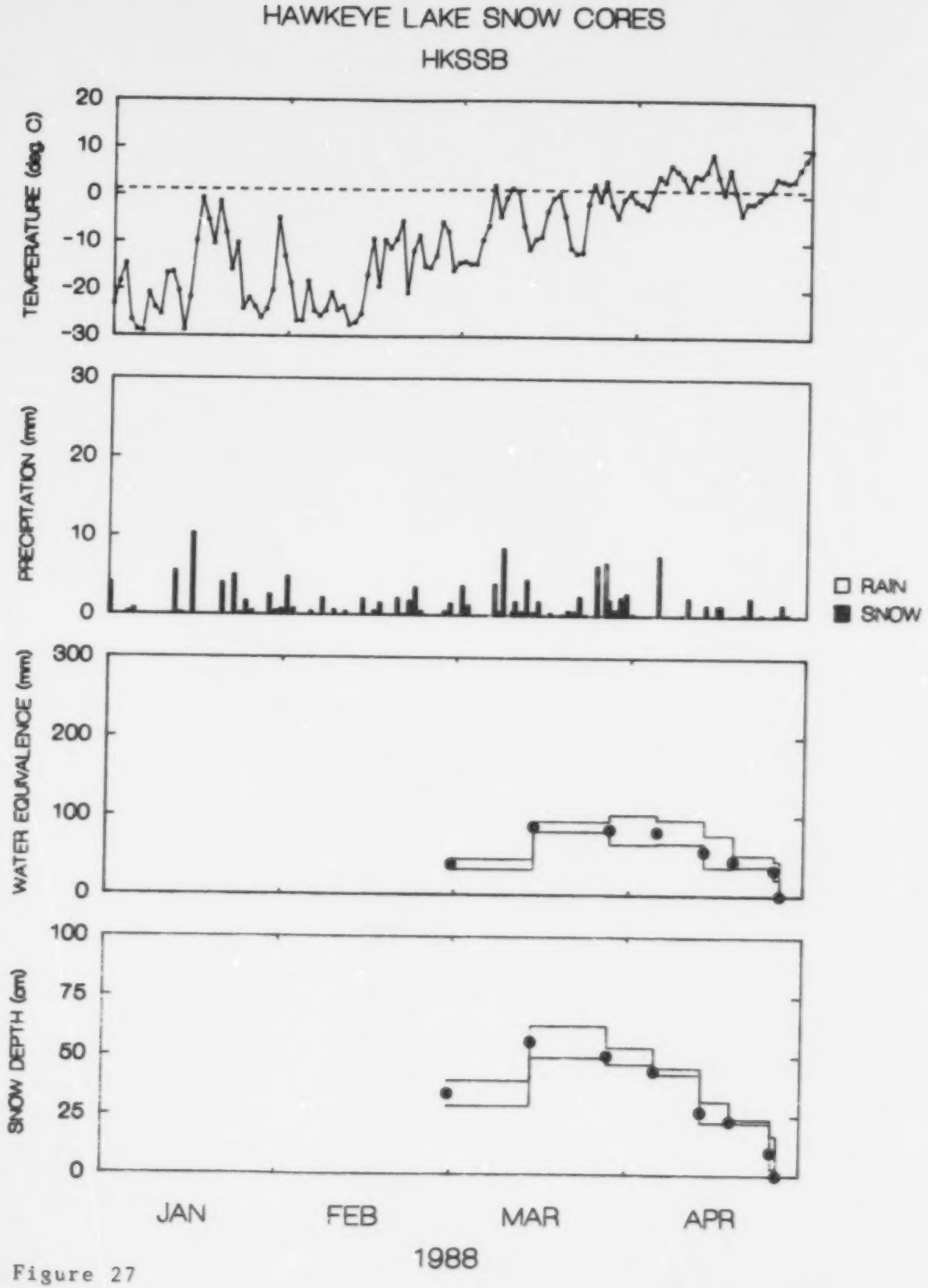
HAWKEYE LAKE SNOW CORES
HKSSB
TEMPERATURE (deg C)
20
10
0
-10
-20
-30
PRECIPITATION (mm)
30
20
10
0
RAIN
SNOW
WATER EQUIVALENCE (mm)
300
200
100
0
SNOW DEPTH (cm)
100
75
50
25
0
JAN
FEB
MAR
APR
1988

Figure 27

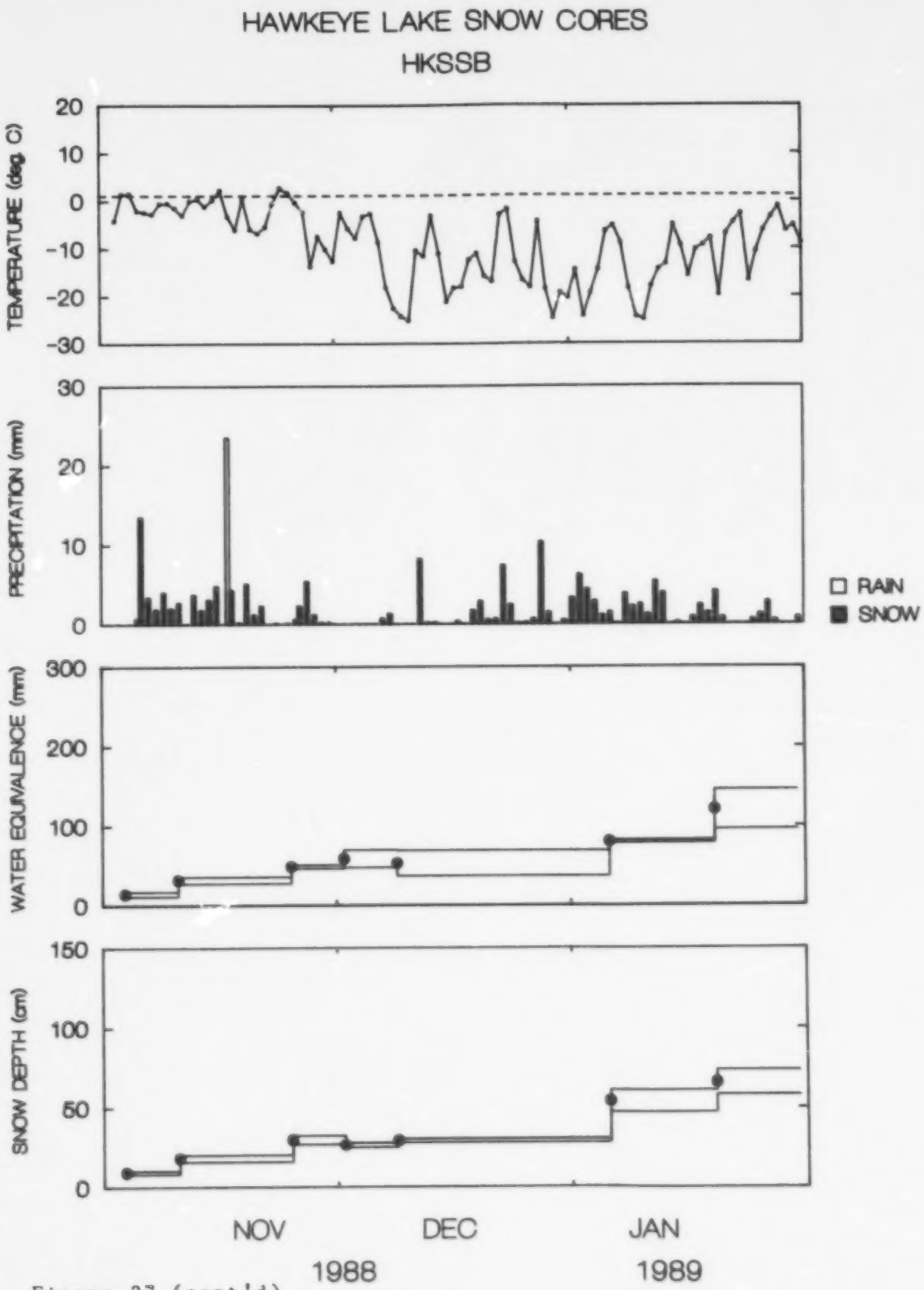

Figure 27 (cont'd)

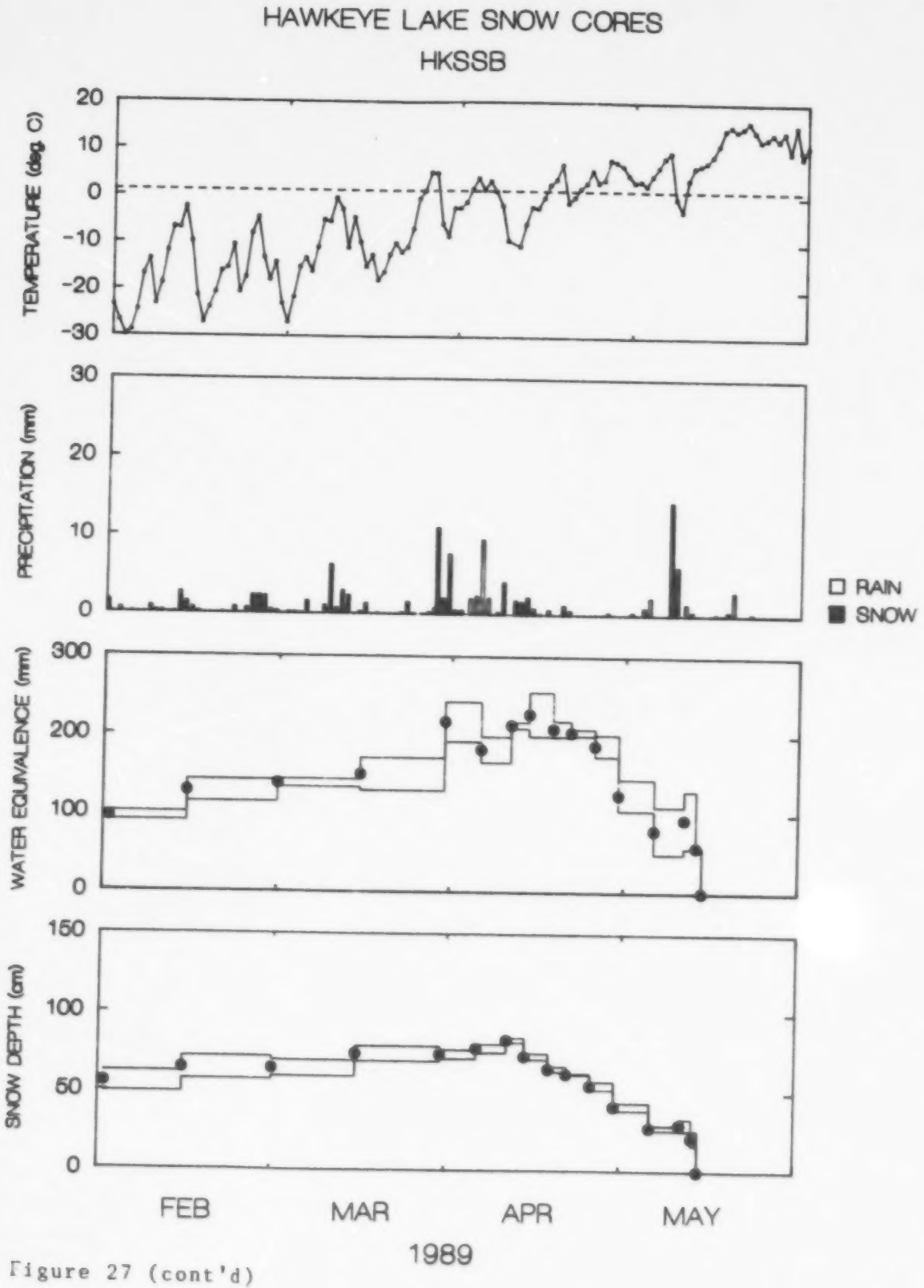

Figure 27 (cont'd)

PLASTIC LAKE SNOW CORES
PCST16

SAMPLING DATE	SNOW DEPTH (cm) MEAN	S.D.	WATER EQUIVALENCE (mm) MEAN	S.D.	PERCENT COVERAGE
22-JAN-88	29.17	18.20	72.06	3.40	100%
08-FEB-88	27.67	11.31	54.48	3.06	100%
22-FEB-88	56.83	16.10	119.44	8.46	100%
07-MAR-88	54.33	24.26	140.84	6.43	100%
14-MAR-88	23.00	21.87	147.72	2.18	100%
28-MAR-88	13.77	35.10	110.27	4.31	100%
30-MAR-88	10.87	20.68	88.87	2.61	100%
05-APR-88	1.27	4.17	8.90	0.18	33%
07-APR-88	0.27	0.40	1.70	0.03	10%
10-JAN-89	22.67	11.54	41.49	1.53	100%
24-JAN-89	30.00	6.88	53.72	5.29	100%
07-FEB-89	31.33	18.67	54.48	5.51	100%
21-FEB-89	51.33	9.99	99.57	6.66	100%
07-MAR-89	54.33	4.77	103.39	1.53	100%
16-MAR-89	39.00	22.62	81.99	1.73	100%
20-MAR-89	59.67	3.50	130.90	1.16	100%
28-MAR-89	32.33	51.83	108.74	1.16	100%
31-MAR-89	32.33	9.99	88.11	2.31	100%
03-APR-89	35.00	21.67	111.80	2.00	100%
06-APR-89	24.83	11.76	61.36	4.86	100%
10-APR-89	27.17	5.29	78.17	0.58	100%
13-APR-89	42.17	12.63	110.27	2.73	100%
18-APR-89	30.33	10.84	95.75	0.58	100%
20-APR-89	28.67	13.51	93.84	2.52	100%
24-APR-89	16.33	20.03	41.49	4.04	100%
27-APR-89	2.73	1.59	7.99	0.30	20%

Table 1

PLASTIC LAKE SNOW CORES
PCST14

SAMPLING DATE	SNOW DEPTH MEAN (cm)	SNOW DEPTH S.D. (cm)	WATER EQUIVALENCE MEAN (mm)	WATER EQUIVALENCE S.D. (mm)	PERCENT COVERAGE
22-JAN-88	33.83	32.10	78.94	3.62	100%
08-FEB-88	34.27	13.24	81.99	0.64	100%
22-FEB-88	61.00	21.30	137.02	3.46	100%
07-MAR-88	61.00	10.50	152.30	1.73	100%
14-MAR-88	24.58	13.76	172.93	1.67	100%
28-MAR-88	16.73	7.00	137.02	0.74	100%
30-MAR-88	15.73	23.08	137.78	1.44	100%
05-APR-88	5.18	3.86	41.11	0.04	67%
07-APR-88	1.05	2.19	6.13	0.19	33%
11-APR-88	1.21	1.58	5.87	0.19	33%
15-APR-88	0.14	0.50	0.36	0.10	8%
10-JAN-89	19.67	6.62	34.61	2.08	100%
24-JAN-89	32.33	6.06	62.89	3.51	100%
07-FEB-89	36.00	22.27	80.47	3.46	100%
21-FEB-89	60.00	11.31	96.51	4.36	100%
07-MAR-89	63.00	16.27	139.31	1.00	100%
16-MAR-89	55.67	21.70	97.66	2.52	100%
20-MAR-89	76.33	4.59	147.72	1.53	100%
28-MAR-89	49.00	22.50	130.14	1.00	100%
31-MAR-89	37.33	26.47	69.00	0.58	100%
03-APR-89	38.00	8.27	124.79	1.00	100%
06-APR-89	39.67	21.87	113.33	4.62	100%
10-APR-89	39.50	4.78	125.55	0.87	100%
13-APR-89	53.33	22.58	145.42	3.51	100%
18-APR-89	38.33	11.77	119.44	5.69	100%
20-APR-89	36.33	14.74	120.97	1.44	100%
24-APR-89	32.00	26.04	106.45	5.00	100%
27-APR-89	11.00	9.54	36.41	1.80	50%
01-MAY-89	1.85	1.39	6.22	0.23	15%

Table 2

PLASTIC LAKE SNOW CORES
PCST11

SAMPLING DATE	SNOW DEPTH MEAN (cm)	SNOW DEPTH S.D. (cm)	WATER EQUIVALENCE MEAN (mm)	WATER EQUIVALENCE S.D. (mm)	PERCENT COVERAGE
22-JAN-88	36.00	26.47	95.75	7.94	100%
08-FEB-88	43.33	27.73	101.10	8.33	100%
22-FEB-88	69.67	16.10	167.59	10.60	100%
07-MAR-88	68.00	10.34	162.23	8.19	100%
14-MAR-88	28.37	30.33	186.69	3.69	100%
28-MAR-88	22.00	21.67	164.53	3.50	100%
30-MAR-88	20.00	16.90	163.00	3.08	100%
05-APR-88	9.98	6.52	72.86	1.99	67%
07-APR-88	6.61	11.73	53.40	1.46	67%
11-APR-88	2.48	12.50	16.22	0.97	33%
15-APR-88	1.25	1.90	5.12	0.33	33%
18-APR-88	0.74	5.20	4.53	0.58	10%
22-APR-88	0.75	6.45	5.30	0.69	10%
10-JAN-89	29.67	3.97	49.13	1.53	100%
24-JAN-89	45.33	6.62	82.76	2.52	100%
07-FEb-89	43.00	11.91	85.82	1.73	100%
21-FEB-89	65.67	30.44	117.15	8.74	100%
07-MAR-89	58.33	26.04	113.33	4.73	100%
16-MAR-89	60.00	20.55	101.10	0.00	100%
20-MAR-89	86.33	16.05	170.64	3.22	100%
28-MAR-89	55.67	24.26	136.25	1.53	100%
31-MAR-89	40.33	16.27	125.55	1.53	100%
03-APR-89	48.33	21.79	126.32	2.52	100%
06-APR-89	36.00	11.54	66.71	4.36	100%
10-APR-89	42.67	4.59	129.38	2.52	100%
13-APR-89	58.67	13.43	155.36	2.52	100%
18-APR-89	40.33	7.00	130.14	2.52	100%
20-APR-89	43.33	14.01	139.31	3.22	100%
24-APR-89	31.00	20.80	114.09	5.00	100%
27-APR-89	10.17	4.59	33.74	1.04	50%

Table 3

PLASTIC LAKE SNOW CORES
PCSZ07

SAMPLING DATE	SNOW DEPTH (cm)		WATER EQUIVALENCE (mm)		PERCENT COVERAGE
	MEAN	S.D.	MEAN	S.D.	
22-JAN-88	41.33	8.05	89.64	6.03	100%
08-FEB-88	48.43	17.51	103.39	7.26	100%
22-FEB-88	82.67	35.02	150.77	2.31	100%
07-MAR-88	71.67	18.67	192.80	8.62	100%
14-MAR-88	29.27	12.13	195.86	1.75	100%
28-MAR-88	21.77	23.82	166.06	1.33	100%
30-MAR-88	20.10	19.50	173.70	1.99	100%
05-APR-88	7.93	4.69	73.37	0.51	67%
07-APR-88	5.58	8.87	43.16	1.18	67%
11-APR-88	2.10	8.09	14.20	0.87	33%
15-APR-88	0.92	1.15	0.58	0.45	33%
18-APR-88	1.03	0.48	7.51	0.04	10%
22-APR-88	1.03	0.58	7.97	0.08	10%
10-JAN-89	25.67	8.05	43.79	2.52	100%
24-JAN-89	43.00	5.77	78.17	3.61	100%
07-FEB-89	50.33	5.77	93.46	8.33	100%
21-FEB-89	61.00	18.53	107.21	3.61	100%
07-MAR-89	68.33	13.44	133.20	7.37	100%
16-MAR-89	63.00	13.95	150.01	1.00	100%
20-MAR-89	81.00	14.32	186.69	3.46	100%
28-MAR-89	55.00	16.90	153.83	3.61	100%
31-MAR-89	49.00	2.30	147.72	2.00	100%
03-APR-89	49.67	1.32	163.00	1.16	100%
06-APR-89	42.67	16.27	125.55	1.04	100%
10-APR-89	46.00	10.50	152.30	3.12	100%
13-APR-89	53.33	25.53	113.33	12.34	100%
18-APR-89	44.00	13.24	143.89	2.00	100%
20-APR-89	42.00	9.27	153.83	2.78	100%
24-APR-89	32.33	7.37	107.98	1.16	100%
27-APR-89	13.50	3.36	47.68	0.50	50%
01-MAY-89	1.10	1.21	2.85	0.27	10%

Table 4

PLASTIC LAKE SNOW CORES
PCSZ05

SAMPLING DATE	SNOW DEPTH (cm)		WATER EQUIVALENCE (mm)		PERCENT COVERAGE
	MEAN	S.D.	MEAN	S.D.	
22-JAN-88	39.17	26.04	78.94	5.75	100%
08-FEB-88	49.33	3.97	108.74	6.11	100%
22-FEB-88	87.33	19.23	179.05	4.04	100%
07-MAR-88	77.67	26.44	191.28	7.64	100%
14-MAR-88	30.00	11.76	192.04	0.87	100%
28-MAR-88	24.33	12.63	173.70	1.07	100%
30-MAR-88	21.67	33.30	177.52	2.45	100%
05-APR-88	10.25	13.06	84.63	0.91	67%
07-APR-88	6.88	19.45	58.01	1.51	67%
11-APR-88	2.77	3.41	15.21	0.18	33%
15-APR-88	0.84	1.58	1.59	0.27	33%
18-APR-88	0.51	1.19	3.54	0.14	10%
22-APR-88	0.54	1.08	3.23	0.22	10%
10-JAN-89	35.00	5.77	59.07	3.46	100%
24-JAN-89	50.67	18.53	107.21	2.52	100%
07-FEB-89	60.33	9.17	122.50	5.86	100%
21-FEB-89	91.33	32.93	148.48	1.16	100%
07-MAR-89	75.67	19.23	159.95	1.53	100%
16-MAR-89	70.00	13.86	163.38	1.00	100%
20-MAR-89	89.67	6.88	188.98	8.08	100%
28-MAR-89	61.00	36.03	143.13	6.08	100%
31-MAR-89	57.17	8.27	177.52	3.01	100%
03-APR-89	57.00	28.67	192.04	3.61	100%
06-APR-89	46.67	23.27	147.71	5.03	100%
10-APR-89	45.33	6.07	150.01	1.26	100%
13-APR-89	65.67	12.62	165.29	3.22	100%
18-APR-89	53.33	8.27	170.64	3.22	100%
20-APR-89	45.67	15.88	143.13	2.31	100%
24-APR-89	42.33	17.51	141.60	3.06	100%
27-APR-89	15.00	8.03	52.08	0.50	50%
01-MAY-89	1.67	0.13	4.61	0.06	10%

Table 5

PLASTIC LAKE SNOW CORES
PCSZ04

SAMPLING DATE	SNOW DEPTH MEAN (cm)	SNOW DEPTH S.D. (cm)	WATER EQUIVALENCE MEAN (mm)	WATER EQUIVALENCE S.D. (mm)	PERCENT COVERAGE
22-JAN-88	38.00	9.54	98.81	6.56	100%
08-FEB-88	42.83	16.58	98.04	10.75	100%
22-FEB-88	72.33	57.38	144.66	11.59	100%
07-MAR-88	69.33	46.82	168.35	10.79	100%
14-MAR-88	28.07	38.46	189.75	4.82	100%
28-MAR-88	16.67	23.08	137.02	2.26	100%
30-MAR-88	14.00	13.94	113.33	0.53	100%
05-APR-88	1.69	7.58	14.45	0.50	33%
07-APR-88	0.63	2.66	5.30	0.22	10%
10-JAN-89	24.33	6.07	37.67	2.52	100%
24-JAN-89	31.33	15.61	43.02	1.53	100%
07-FEB-89	31.00	15.60	75.12	5.29	100%
21-FEB-89	49.00	3.50	86.58	4.36	100%
07-MAR-89	49.33	27.35	117.15	0.58	100%
16-MAR-89	39.33	10.83	94.22	1.53	100%
20-MAR-89	57.00	18.67	146.95	2.00	100%
28-MAR-89	31.67	25.77	94.22	6.43	100%
31-MAR-89	26.83	17.21	71.30	1.04	100%
03-APR-89	28.33	9.17	101.86	2.08	100%
06-APR-89	23.00	7.37	68.24	2.00	100%
10-APR-89	23.83	5.77	71.30	0.76	100%
13-APR-89	48.67	21.01	106.45	1.16	100%
18-APR-89	18.67	7.00	48.37	3.06	100%
20-APR-89	11.17	4.77	26.97	3.51	100%
24-APR-89	25.67	7.94	85.82	1.53	100%
27-APR-89	1.53	3.56	5.93	0.50	20%

Table 6

HARP LAKE SNOW CORES
HPST16

SAMPLING DATE	SNOW DEPTH (cm)		WATER EQUIVALENCE (mm)		PERCENT COVERAGE
	MEAN	S.D.	MEAN	S.D.	
21-JAN-88	37.50	15.61	82.76	6.80	100%
09-FEB-88	43.33	5.77	110.27	6.51	100%
23-FEB-88	80.33	13.04	185.16	7.85	100%
08-MAR-88	30.17	27.64	201.21	3.82	100%
15-MAR-88	31.97	12.77	216.49	2.30	100%
29-MAR-88	25.07	22.62	227.19	3.04	100%
31-MAR-88	23.17	23.19	205.80	2.06	100%
06-APR-88	14.10	28.85	128.61	2.88	100%
08-APR-88	11.90	34.24	94.99	2.27	100%
12-APR-88	4.85	30.68	42.14	2.70	67%
14-APR-88	0.97	3.49	6.13	0.39	33%
19-APR-88	0.67	0.53	3.92	0.07	10%
21-APR-88	0.65	0.53	3.23	0.08	10%
09-JAN-89	30.67	4.59	42.26	3.22	100%
23-JAN-89	47.33	11.31	101.10	4.62	100%
06-FEB-89	56.33	8.68	120.97	1.16	100%
20-FEB-89	72.33	17.81	148.48	9.02	100%
06-MAR-89	74.67	12.77	172.94	6.66	100%
16-MAR-89	65.00	24.26	175.23	8.19	100%
21-MAR-89	85.33	11.31	211.14	3.22	100%
28-MAR-89	53.00	39.33	166.82	7.21	100%
30-MAR-89	35.33	25.53	111.03	3.22	100%
03-APR-89	39.33	14.01	137.78	4.16	100%
06-APR-89	44.33	35.62	127.85	1.53	100%
10-APR-89	24.83	3.97	58.31	2.26	100%
13-APR-89	54.00	23.94	152.30	4.77	100%
17-APR-89	42.00	10.34	137.78	2.65	100%
21-APR-89	37.00	8.05	121.74	2.65	100%
24-APR-89	33.67	9.27	101.10	3.51	100%
27-APR-89	8.83	1.98	28.01	2.26	50%
01-MAY-89	0.78	0.57	2.42	0.06	5%

Table 7

HARP LAKE SNOW CORES
HPST14

SAMPLING DATE	SNOW DEPTH (cm)		WATER EQUIVALENCE (mm)		PERCENT COVERAGE
	MEAN	S.D.	MEAN	S.D.	
21-JAN-88	38.00	9.17	94.99	4.36	100%
09-FEB-88	43.00	8.05	94.22	1.73	100%
23-FEB-88	83.33	14.74	180.58	2.52	100%
08-MAR-88	32.33	1.32	204.27	0.76	100%
15-MAR-88	34.63	8.05	242.48	0.58	100%
29-MAR-88	25.33	15.27	212.67	0.35	100%
31-MAR-88	23.07	5.77	198.92	0.12	100%
06-APR-88	13.33	7.00	114.09	0.76	100%
08-APR-88	11.43	8.26	85.82	1.36	100%
12-APR-88	4.42	3.55	36.51	0.44	67%
14-APR-88	1.00	1.58	6.88	0.22	33%
19-APR-88	0.73	1.50	4.23	0.16	10%
21-APR-88	0.91	0.87	5.07	0.10	10%
09-JAN-89	37.00	9.54	43.79	3.00	100%
23-JAN-89	53.67	3.97	117.91	2.08	100%
06-FEB-89	59.67	7.00	111.80	0.58	100%
20-FEB-89	87.67	6.62	167.58	6.51	100%
06-MAR-89	85.00	31.13	176.76	1.00	100%
16-MAR-89	71.33	24.51	195.10	1.53	100%
21-MAR-89	89.00	4.77	227.19	1.73	100%
28-MAR-89	64.00	10.84	192.04	5.29	100%
30-MAR-89	60.33	23.86	183.64	1.53	100%
03-APR-89	53.67	36.56	162.23	1.53	100%
06-APR-89	54.00	21.01	161.47	2.00	100%
10-APR-89	48.67	18.20	131.67	0.58	100%
13-APR-89	56.50	15.88	150.01	0.87	100%
17-APR-89	44.33	23.08	128.61	2.89	100%
21-APR-89	40.00	4.59	140.84	1.00	100%
24-APR-89	33.00	6.62	114.85	2.65	100%
27-APR-89	6.17	3.50	18.07	0.58	50%
01-MAY-89	0.22	0.16	0.65	0.02	1%

Table 8

HARP LAKE SNOW CORES
HPST13

SAMPLING DATE	SNOW DEPTH (cm) MEAN	S.D.	WATER EQUIVALENCE (mm) MEAN	S.D.	PERCENT COVERAGE
21-JAN-88	36.33	2.30	92.69	1.44	100%
09-FEB-88	39.83	2.30	94.99	3.33	100%
23-FEB-88	73.67	12.97	161.47	3.06	100%
08-MAR-88	27.00	2.64	171.40	1.32	100%
15-MAR-88	27.87	23.19	183.63	2.51	100%
29-MAR-88	19.23	9.27	166.82	1.44	100%
31-MAR-88	15.97	12.63	134.72	1.75	100%
06-APR-88	0.94	4.37	6.13	0.45	33%
08-APR-88	0.46	1.51	1.08	0.03	33%
09-JAN-89	25.33	10.59	36.90	3.33	100%
23-JAN-89	37.33	0.00	76.65	0.58	100%
06-FEB-89	39.33	6.62	61.36	0.58	100%
20-FEB-89	67.33	12.77	115.62	2.31	100%
06-MAR-89	67.33	27.16	142.37	1.53	100%
16-MAR-89	55.00	16.05	127.08	2.00	100%
21-MAR-89	78.00	7.01	185.16	4.36	100%
28-MAR-89	40.33	6.06	104.15	4.04	100%
30-MAR-89	31.17	12.13	90.40	0.76	100%
03-APR-89	29.67	10.50	90.40	1.16	100%
06-APR-89	25.33	8.68	78.17	1.53	100%
10-APR-89	25.33	5.77	65.95	1.16	100%
13-APR-89	34.50	6.07	74.35	4.27	100%
17-APR-89	17.33	5.77	55.25	1.16	100%
21-APR-89	13.00	7.37	32.32	3.00	100%
24-APR-89	10.67	6.06	23.91	1.16	100%

Table 9

HARP LAKE SNOW CORES
HPSZ07

SAMPLING DATE	SNOW DEPTH (cm) MEAN	S.D.	WATER EQUIVALENCE (mm) MEAN	S.D.	PERCENT COVERAGE
21-JAN-88	42.67	6.06	97.28	3.22	100%
09-FEB-88	48.33	16.90	107.98	4.51	100%
23-FEB-88	85.67	8.68	185.16	4.04	100%
08-MAR-88	32.67	5.29	219.55	1.89	100%
15-MAR-88	33.67	15.89	216.49	1.13	100%
29-MAR-88	24.03	25.77	211.14	0.93	100%
31-MAR-88	22.93	41.27	205.03	1.83	100%
06-APR-88	9.87	25.22	83.52	3.42	100%
08-APR-88	6.07	28.85	40.73	3.10	100%
12-APR-88	2.75	7.68	20.63	0.37	67%
14-APR-88	0.95	1.90	4.61	0.27	33%
19-APR-88	0.81	1.50	5.14	0.16	10%
21-APR-88	0.84	1.08	4.76	0.08	10%
09-JAN-89	35.67	4.77	46.08	1.16	100%
23-JAN-89	52.33	1.33	111.80	2.52	100%
06-FEB-89	65.00	22.11	117.91	3.00	100%
20-FEB-89	88.00	32.34	159.18	5.00	100%
06-MAR-89	67.00	89.16	198.92	10.58	100%
16-MAR-89	74.67	13.95	177.52	1.53	100%
21-MAR-89	86.67	11.77	192.80	6.11	100%
28-MAR-89	63.33	24.26	188.98	1.53	100%
30-MAR-89	45.00	6.62	153.07	4.00	100%
03-APR-89	61.33	10.34	187.45	2.08	100%
06-APR-89	54.17	16.90	153.83	6.60	100%
10-APR-89	54.33	34.03	197.39	6.03	100%
13-APR-89	57.50	23.19	162.24	3.91	100%
17-APR-89	45.00	37.88	159.18	6.93	100%
21-APR-89	43.33	4.59	154.59	4.04	100%
24-APR-89	31.67	13.04	102.63	3.22	100%
27-APR-89	6.00	3.03	22.28	0.43	50%
01-MAY-89	0.28	0.05	0.80	0.02	2%

Table 10

HARP LAKE SNOW CORES
HPSZ06

SAMPLING DATE	SNOW DEPTH MEAN (cm)	SNOW DEPTH S.D. (cm)	WATER EQUIVALENCE MEAN (mm)	WATER EQUIVALENCE S.D. (mm)	PERCENT COVERAGE
21-JAN-88	32.50	13.82	80.47	3.00	100%
09-FEB-88	38.00	11.47	92.69	1.73	100%
23-FEB-88	71.33	6.88	166.06	4.93	100%
08-MAR-88	26.00	12.63	173.70	0.87	100%
15-MAR-88	28.03	49.01	227.96	1.44	100%
29-MAR-88	17.50	13.04	141.60	1.04	100%
31-MAR-88	12.53	14.56	107.98	1.36	100%
06-APR-88	0.34	0.13	2.32	0.01	10%
09-JAN-89	25.50	7.94	33.09	2.18	100%
23-JAN-89	43.67	11.31	87.34	2.08	100%
06-FEB-89	46.33	4.77	80.47	3.22	100%
20-FEB-89	74.67	14.92	140.07	3.51	100%
06-MAR-89	71.67	16.58	159.94	4.93	100%
16-MAR-89	58.67	21.01	147.72	3.79	100%
21-MAR-89	75.67	6.88	182.11	2.08	100%
28-MAR-89	47.33	24.80	166.06	3.79	100%
30-MAR-89	40.67	6.62	114.85	2.52	100%
03-APR-89	36.33	53.39	132.43	1.16	100%
06-APR-89	22.17	11.47	65.18	1.04	100%
10-APR-89	47.67	6.06	131.67	1.53	100%
13-APR-89	41.33	29.03	111.80	7.10	100%
17-APR-89	21.67	10.83	62.12	4.62	100%
21-APR-89	7.00	10.83	13.22	3.00	100%

Table 11

HARP LAKE SNOW CORES
HPSZ04

SAMPLING DATE	SNOW DEPTH (cm)		WATER EQUIVALENCE (mm)		PERCENT COVERAGE
	MEAN	S.D.	MEAN	S.D.	
21-JAN-88	39.33	7.37	94.22	2.31	100%
09-FEB-88	41.00	15.27	91.17	3.61	100%
23-FEB-88	79.83	17.81	169.88	2.75	100%
08-MAR-88	30.00	9.27	188.22	2.18	100%
15-MAR-88	32.20	22.11	205.03	2.87	100%
29-MAR-88	22.30	12.13	166.06	0.61	100%
31-MAR-88	16.57	14.56	153.06	1.89	100%
06-APR-88	8.77	19.50	71.30	1.60	100%
08-APR-88	3.62	9.39	22.68	0.91	67%
12-APR-88	0.22	0.61	1.25	0.05	10%
09-JAN-89	30.00	5.74	36.52	4.50	100%
23-JAN-89	42.83	3.50	80.47	2.93	100%
06-FEB-89	35.67	9.17	65.18	6.11	100%
20-FEB-89	59.33	19.50	121.73	7.77	100%
06-MAR-89	63.33	9.17	140.84	5.13	100%
16-MAR-89	50.67	25.26	125.55	5.03	100%
21-MAR-89	70.67	25.36	166.82	5.86	100%
28-MAR-89	38.33	21.01	140.84	4.93	100%
30-MAR-89	36.33	19.86	111.04	1.16	100%
03-APR-89	34.67	3.50	120.97	2.31	100%
06-APR-89	29.50	2.65	86.58	0.50	100%
10-APR-89	27.50	4.77	75.88	2.29	100%
13-APR-89	42.83	5.77	93.46	2.02	100%
17-APR-89	23.00	9.99	67.47	2.00	100%
21-APR-89	14.50	1.32	43.02	0.50	100%
24-APR-89	18.00	7.01	36.14	1.00	100%

Table 12

HAWKEYE LAKE SNOW CORES
HKSBW

SAMPLING DATE	SNOW DEPTH (cm) MEAN	S.D.	WATER EQUIVALENCE (mm) MEAN	S.D.	PERCENT COVERAGE
01-MAR-88	42.67	2.02	73.27	1.53	100%
15-MAR-88	49.80	13.76	69.87	2.25	100%
28-MAR-88	48.13	21.93	105.74	2.69	100%
05-APR-88	29.50	13.07	81.10	1.90	100%
13-APR-88	17.13	11.80	43.01	2.60	100%
18-APR-88	12.73	6.79	31.93	1.42	100%
03-NOV-88	8.23	1.78	14.46	0.59	100%
10-NOV-88	16.87	8.57	32.90	2.34	100%
25-NOV-88	15.00	8.39	30.49	0.50	100%
02-DEC-88	23.03	3.94	47.02	3.40	100%
09-DEC-88	20.40	2.75	44.64	0.50	100%
06-JAN-89	48.43	6.97	84.14	2.93	100%
20-JAN-89	61.90	6.13	120.74	2.74	100%
03-FEB-89	57.20	3.02	111.31	3.12	100%
16-FEB-89	52.17	21.01	98.86	2.77	100%
03-MAR-89	62.57	14.22	131.58	2.25	100%
17-MAR-89	55.57	7.81	122.97	1.36	100%
31-MAR-89	56.13	10.66	158.90	1.14	100%
06-APR-89	50.67	8.32	169.09	0.50	100%
11-APR-89	62.87	9.34	181.48	2.22	100%
14-APR-89	63.73	16.49	174.96	2.97	100%
18-APR-89	44.93	16.15	135.58	4.57	100%
21-APR-89	44.60	21.87	146.89	5.80	100%
25-APR-89	33.70	35.89	109.31	4.94	100%
29-APR-89	21.37	6.82	64.14	2.70	100%

Table 13

HAWKEYE LAKE SNOW CORES
HKSFB

SAMPLING DATE	SNOW DEPTH (cm)		WATER EQUIVALENCE (mm)		PERCENT COVERAGE
	MEAN	S.D.	MEAN	S.D.	
01-MAR-88	39.00	3.05	67.57	0.85	100%
15-MAR-88	44.03	22.63	62.69	5.20	100%
28-MAR-88	42.77	13.70	94.85	0.55	100%
05-APR-88	30.17	20.98	73.97	0.76	100%
13-APR-88	10.37	4.40	19.91	1.72	100%
18-APR-88	19.17	5.37	43.02	1.61	100%
03-NOV-88	6.30	0.94	10.16	0.78	100%
10-NOV-88	16.00	0.89	27.52	1.20	100%
25-NOV-88	14.17	2.02	30.27	1.04	100%
02-DEC-88	20.17	4.61	39.06	1.61	100%
09-DEC-88	16.23	4.07	33.79	2.66	100%
06-JAN-89	35.80	7.02	57.93	5.27	100%
20-JAN-89	55.37	5.07	99.35	2.15	100%
03-FEB-89	51.90	5.63	100.92	2.21	100%
16-FEB-89	56.70	15.51	114.98	0.00	100%
03-MAR-89	57.47	11.41	111.21	4.27	100%
17-MAR-89	60.43	1.34	128.14	1.21	100%
31-MAR-89	57.03	13.82	135.18	2.02	100%
06-APR-89	45.83	8.27	124.80	2.28	100%
11-APR-89	44.03	20.07	128.38	3.41	100%
14-APR-89	38.90	14.93	133.74	3.05	100%
18-APR-89	37.43	18.78	114.32	3.33	100%
21-APR-89	34.93	5.35	114.41	1.68	100%
25-APR-89	15.13	5.26	45.65	1.10	100%
29-APR-89	16.93	7.64	36.51	1.89	100%

Table 14

HAWKEYE LAKE SNOW CORES
HKSPO

SAMPLING DATE	SNOW DEPTH MEAN (cm)	S.D.	WATER EQUIVALENCE MEAN (mm)	S.D.	PERCENT COVERAGE
01-MAR-88	44.27	2.50	67.82	1.30	100%
16-MAR-88	53.67	7.80	97.61	2.84	100%
28-MAR-88	47.73	8.20	106.24	2.00	100%
05-APR-88	36.07	20.43	96.16	1.50	100%
13-APR-88	11.20	8.61	31.36	3.12	100%
18-APR-88	12.50	3.98	31.53	1.80	100%
03-NOV-88	7.63	0.50	14.19	0.45	100%
10-NOV-88	16.67	5.61	28.58	0.76	100%
25-NOV-88	17.00	2.44	41.28	3.46	100%
02-DEC-88	20.30	3.44	38.94	1.42	100%
09-DEC-88	19.93	6.56	37.89	0.29	100%
06-JAN-89	49.47	4.18	86.51	0.85	100%
20-JAN-89	61.67	4.30	109.57	2.19	100%
03-FEB-89	59.43	6.14	127.30	1.11	100%
16-FEB-89	62.33	15.26	129.17	0.91	100%
03-MAR-89	65.30	10.46	130.57	1.02	100%
17-MAR-89	65.07	11.63	136.31	2.16	100%
31-MAR-89	66.07	9.22	144.43	3.49	100%
06-APR-89	50.20	15.98	166.10	4.85	100%
11-APR-89	61.53	11.36	136.12	1.89	100%
14-APR-89	53.10	5.34	140.94	2.72	100%
18-APR-89	47.07	15.23	154.23	4.09	100%
21-APR-89	39.50	6.97	139.53	0.89	100%
25-APR-89	32.30	3.51	103.85	3.42	100%
29-APR-89	22.57	18.08	70.32	3.37	100%
05-MAY-89	14.40	7.57	20.96	3.62	100%

Table 15

HAWKEYE LAKE SNOW CORES
HKSPW

SAMPLING DATE	SNOW DEPTH (cm)		WATER EQUIVALENCE (mm)		PERCENT COVERAGE
	MEAN	S.D.	MEAN	S.D.	
01-MAR-88	35.67	2.47	59.64	2.08	100%
16-MAR-88	42.83	16.16	69.91	1.61	100%
28-MAR-88	34.67	7.23	78.87	0.58	100%
05-APR-88	28.38	31.51	83.25	0.85	100%
03-NOV-88	4.57	0.74	10.22	0.93	100%
10-NOV-88	10.50	2.57	19.99	0.27	100%
25-NOV-88	11.00	8.37	28.41	0.50	100%
02-DEC-88	16.67	1.14	32.43	2.02	100%
09-DEC-88	17.27	3.63	40.77	0.47	100%
06-JAN-89	38.27	7.15	55.92	0.91	100%
20-JAN-89	45.50	20.80	91.21	4.33	100%
03-FEB-89	51.53	13.02	78.59	2.39	100%
16-FEB-89	48.17	8.13	84.61	0.38	100%
03-MAR-89	46.47	21.21	89.64	1.50	100%
17-MAR-89	57.33	5.55	110.84	0.64	100%
31-MAR-89	43.10	5.01	107.98	1.85	100%
06-APR-89	35.73	4.78	116.90	0.95	100%
11-APR-89	37.87	6.14	102.23	1.42	100%
14-APR-89	33.03	7.33	104.61	1.27	100%
18-APR-89	31.30	22.06	77.27	5.26	100%
21-APR-89	21.57	9.68	86.10	3.42	100%
25-APR-89	15.87	3.90	48.07	1.70	100%

Table 16

HAWKEYE LAKE SNOW CORES
HKSSB

SAMPLING DATE	SNOW DEPTH MEAN (cm)	SNOW DEPTH S.D. (cm)	WATER EQUIVALENCE MEAN (mm)	WATER EQUIVALENCE S.D. (mm)	PERCENT COVERAGE
01-MAR-88	34.00	6.48	38.42	5.29	100%
15-MAR-88	55.93	6.33	86.50	6.65	100%
28-MAR-88	50.00	18.77	82.80	3.46	100%
05-APR-88	43.63	15.07	80.15	1.32	100%
13-APR-88	26.57	20.22	55.51	4.48	100%
18-APR-88	22.83	7.26	43.64	0.76	100%
25-APR-88	9.83	11.47	32.53	6.93	100%
03-NOV-88	9.20	3.03	14.05	1.02	100%
10-NOV-88	18.03	4.20	31.50	2.14	100%
25-NOV-88	29.50	2.12	48.42	2.78	100%
02-DEC-88	26.33	11.00	58.50	1.34	100%
09-DEC-88	29.07	16.23	52.65	1.10	100%
06-JAN-89	53.77	1.80	80.19	6.88	100%
20-JAN-89	65.57	24.84	120.31	7.73	100%
03-FEB-89	55.23	5.50	94.50	6.42	100%
16-FEB-89	64.40	13.95	127.90	7.18	100%
03-MAR-89	64.30	5.01	137.84	5.05	100%
17-MAR-89	73.80	20.80	149.40	4.72	100%
31-MAR-89	73.53	25.27	216.87	2.73	100%
06-APR-89	77.33	16.39	181.34	2.65	100%
11-APR-89	82.70	3.92	212.76	1.49	100%
14-APR-89	72.33	28.08	226.83	1.85	100%
18-APR-89	64.37	9.80	208.16	1.60	100%
21-APR-89	61.30	4.06	203.63	0.30	100%
25-APR-89	53.87	13.78	186.83	2.55	100%
29-APR-89	40.73	20.00	123.86	2.37	100%
05-MAY-89	27.53	30.25	78.82	1.51	100%
10-MAY-89	29.63	36.52	93.02	3.68	100%
12-MAY-89	21.23	1.09	57.60	4.66	100%

Table 17